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WATER SUPPLY OUTLOOK FOR MONTANA



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with
MONTANA AGRICULTURAL EXPERIMENT STATION

AS OF
MAY 1, 1974

Data included in this report were obtained by the agencies named above in cooperation
with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Snow Surveyors near Ship Creek,
Alaska snow course.*

SCS PHOTO A-272-11

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR MONTANA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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MAP, SNOW COURSES AND RELATED DATA MEASURING SITES

COOPERATORS Inside Back Cover

MONTANA WATER SUPPLY OUTLOOK
May 1, 1974

COLUMBIA RIVER DRAINAGE

Snow - Snowpack varies from near average in extreme headwaters of the Clark Fork to record or near record levels near the Montana-Idaho border and a small area east of Big Fork.

Low elevation snow is melting and water equivalent measurements in this zone are generally below average. Some higher elevation snow courses showed increased water content of 14 to 17 inches during April.

Streamflow - Record or near record volumes spring and summer streamflow are forecast for the Yaak River, Bitterroot River and its west side tributaries, St. Regis River and Prospect Creek. Most remaining streams are expected to produce above average runoff except for near average streamflow in the extreme headwaters of the Clark Fork River.

Snowmelt peaks are expected to be quite high from streams with headwaters along or near the Montana-Idaho border. Other streams not regulated by reservoirs should have above average peak flow with exception of the Middle Fork Flathead where peaks are expected to be in the average range.



MISSOURI RIVER DRAINAGE

Snow - Near record snowpack was measured in the Madison River drainage south of West Yellowstone and the upper Big Hole drainage. Most areas in southwest Montana have above average snowpack. In the Gallatin River drainage higher elevations received 6 to 10 inches moisture during April. The St. Mary River drainage has above average snowpack. Other areas in the Missouri River drainage have about average snowpack. Lower elevations are generally below average as a result of warm temperature and below average precipitation. Higher elevations in general have above average snowpack.

Streamflow - The Madison River is forecast to produce near record volume streamflow. Above average runoff is the outlook for the southwest area, with near average runoff for the area between Helena and Butte, and streams in Central Montana and the Milk River. Above average streamflow is forecast for the remaining portion of the area. Most irrigation supplies are expected to be normal or above.

Snowmelt peaks on streams not regulated by reservoirs are expected to be above average.

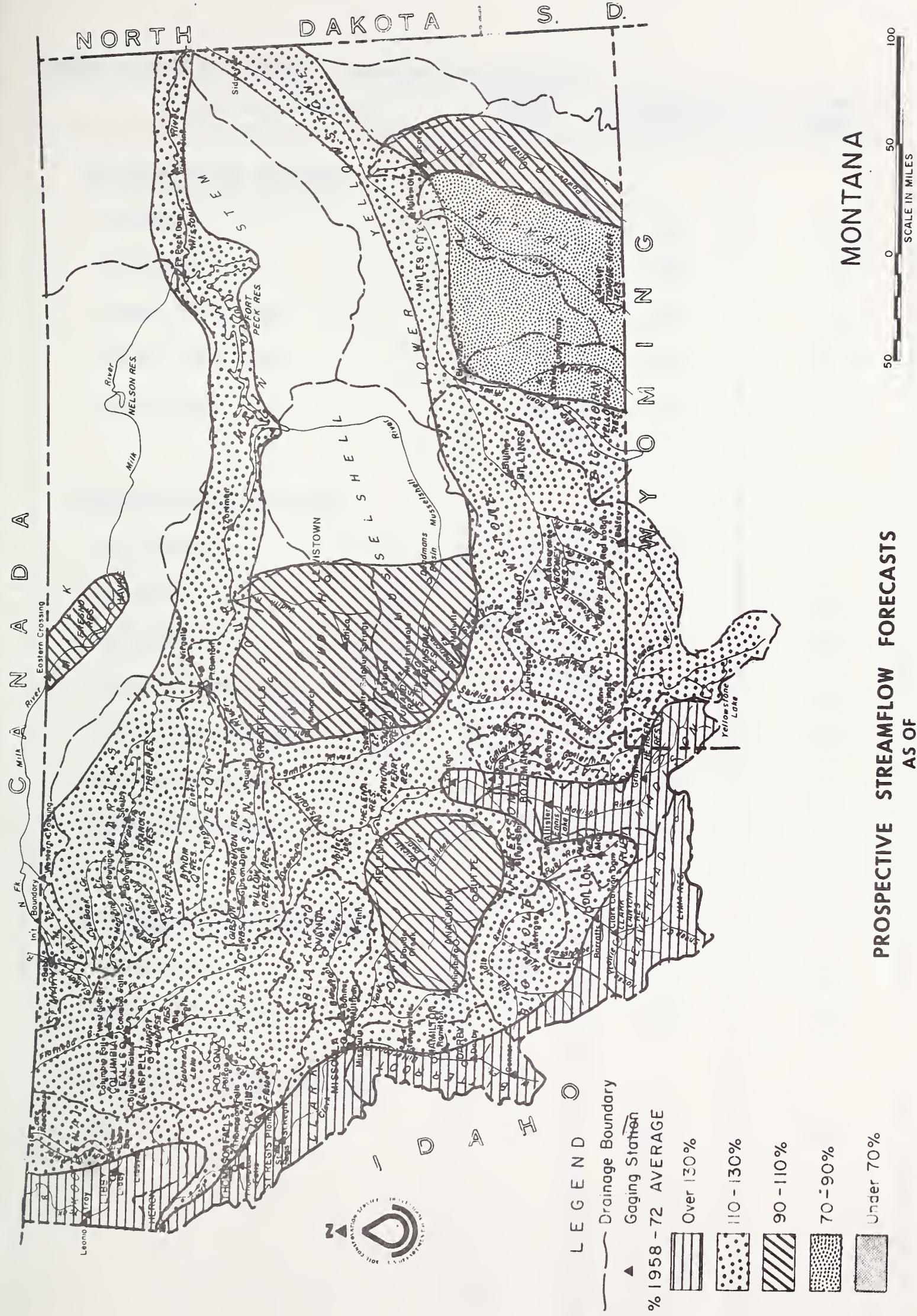
YELLOWSTONE RIVER DRAINAGE

Snow - Large increases in water stored in the mountain snowpack occurred in the Rock Creek drainage near Red Lodge. Other areas showed increases at higher elevations with melt at lower elevations. In general, the upper Yellowstone and the extreme headwaters of the Boulder, Stillwater and Clarks Fork have above average snow pack while the northern area is near average. Snowpack in the north end of the Big Horn Mountains remains below average.

Streamflow - May through September streamflow is forecast above average for streams tributary to the Yellowstone River. Below average runoff is anticipated for the Little Big Horn River and the Tongue River drainages. Irrigation water supplies are expected to be near or above average from most drainages.

Snowmelt peaks are expected to range above average on most streams not regulated by reservoirs.





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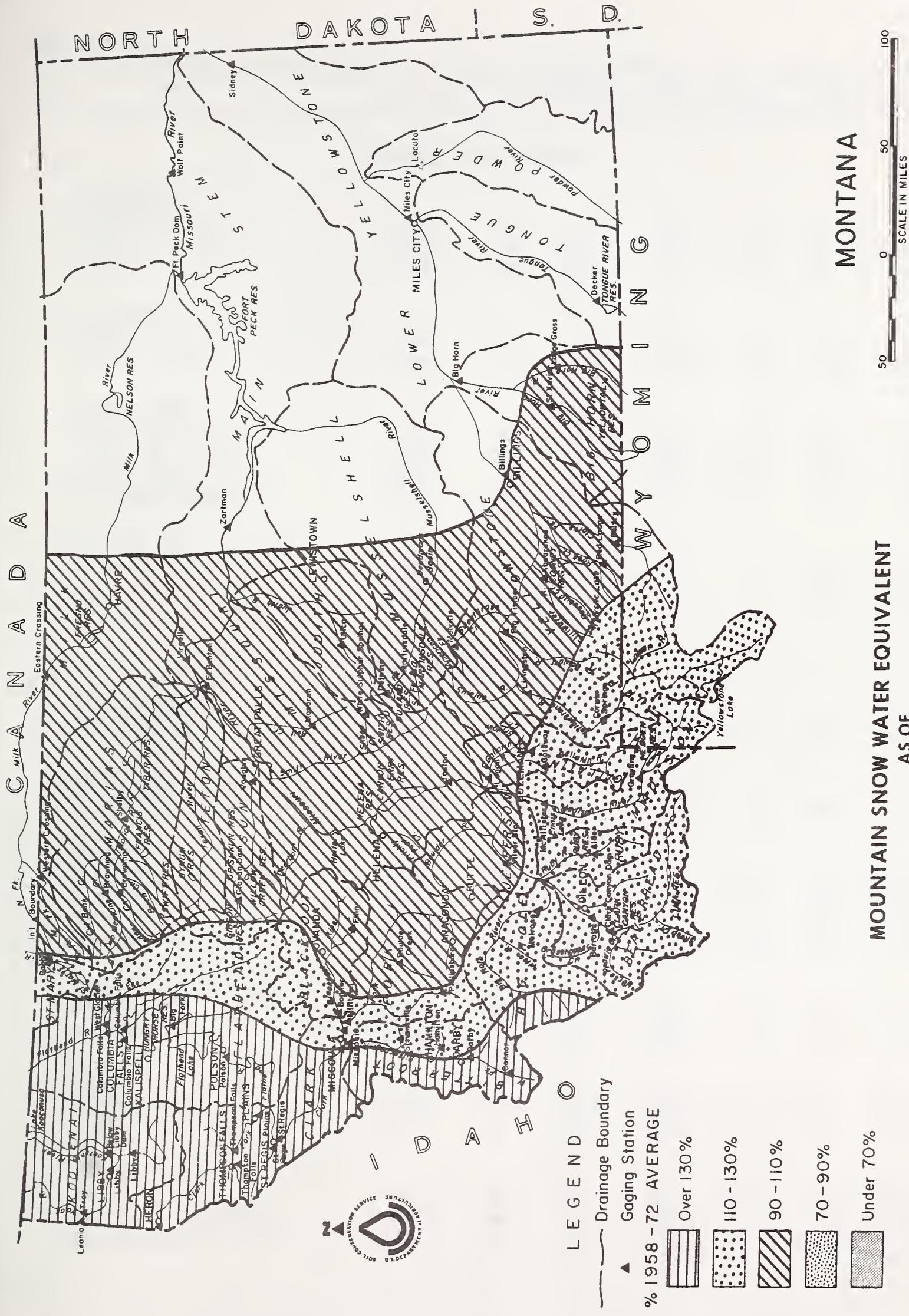
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SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average
<u>COLUMBIA RIVER DRAINAGE</u>			
Kootenai	28	217	145
Flathead	20	195	135
Upper Clark Fork	29	143	96
Lower Clark Fork	14	250	135
Bitterroot	13	203	133
<u>MISSOURI RIVER DRAINAGE</u>			
Jefferson	42	145	117
Madison	18	137	122
Gallatin	13	125	117
Missouri Main Stem	12	127	98
Judith-Musselshell	14	112	94
Marias-Teton-Sun	8	208	98
Milk (Headwaters)	2	181	99
<u>YELLOWSTONE RIVER DRAINAGE</u>			
Yellowstone	26	126	116
Little Big Horn	7	78	91
<u>SASKATCHEWAN RIVER DRAINAGE</u>			
St. Mary	8	160	126
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SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average +

COLUMBIA RIVER BASIN
Kootenai

Baree Trail	3800	48	7.5	5/1	6.6	6.8	6.6
Murphy Lake R. S.	3000	48	22.6	5/1	22.8	20.2	21.8
Raven	3050	48	23.0	5/1	15.6	14.2	19.5

Flathead

Desert Mountain	5600	54	8.4	5/2	9.4	8.7	8.7
Marias Pass	5250	54	6.5	4/28	8.6	7.0	6.2

Clark Fork

Black Pine	7100	48	10.0	4/29	8.8	8.6	7.6
Lubrecht Forest	4100	48	26.8	5/2	23.3	24.3	24.8
Seeley Lake R. S.	4030	48	11.9	5/2	11.9	10.2	11.7
Skalkaho Summit	7260	48	10.8	-	-	9.8	9.9

Bitterroot

Gibbons Pass	7100	48	7.1	-	-	3.2	5.6
Lolo Pass	5250	48	10.6	-	-	8.1	7.1

MISSOURI RIVER BASIN
Beaverhead

Lakeview	6700	48	15.3	4/30	18.1	14.1	13.6
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Madison

West Yellowstone	6700	48	6.5	4/29	3.3	3.3	3.2
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Gallatin

Bridger Bowl	7250	48	17.0	5/1	15.1	15.8	16.2
College Site No. 2	4856	54	17.7	4/26	16.0	19.8	16.1
Lick Creek	6860	48	18.8	4/30	17.5	15.4	17.6
Twenty-One Mile	7150	48	10.0	4/29	8.8	6.8	4.7

Missouri Main Stem

Kings Hill	7420	48	11.8	5/2	8.6	8.3	7.0
Stemple Pass	6350	48	5.9	4/29	5.4	4.4	5.0

Milk

Beaver Creek	3950	48	20.9	4/30	11.0	17.8	17.5
Rocky Boy	4700	36	10.1	4/30	10.1	9.4	9.7

Yellowstone

Battle Ridge	6020	48	17.6	5/1	14.0	13.7	14.9
Northeast Entrance	7350	48	9.4	5/1	6.3	7.7	7.7
PMC Dryland	3700	48	20.7	4/29	9.1	15.2	-

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average

COLUMBIA RIVER BASIN

Kootenai	Koocanusa	3,522.0	1,080.0	273.6	-
Flathead	Hungry Horse	3,428.0	1,522.0	2,054.0	2,006.0
	Flathead Lake	1,791.0	1,221.0	674.1	977.9
	Camas (4)	45.2	24.8	33.7	32.5
	Mission Valley (8)	100.3	55.7	35.7	44.0
Clark Fork	Georgetown Lake	31.0	19.1	23.4	23.1
	Lower Willow Creek	4.6	4.6	1.7	2.4
	Noxon Rapids	334.6	207.6	57.9	138.4
	Nevada Creek	12.6	-	5.9	10.0
Bitterroot	Como	34.9	-	-	19.0
	Painted Rocks	31.7	19.3	0	25.9

MISSOURI RIVER BASIN

Beaverhead	Clark Canyon	328.9	164.2	173.6	148.9
	Lima	84.0	67.2	68.4	51.5
Ruby	Ruby	38.8	33.5	38.8	35.0
Madison	Hebgen Lake	377.5	200.4	257.1	212.6
	Ennis Lake	41.0	35.6	32.7	36.6
Gallatin	Middle Creek	8.0	4.2	4.6	4.5
Missouri	Canyon Ferry	2,043.0	1,511.0	1,565.0	1,552.0
	Hauser & Helena	61.9	61.9	52.5	59.3
	Lake Helena	10.4	10.4	7.2	9.6
	Holter Lake	81.9	65.9	79.0	70.6
	Smith River	10.7	5.6	5.8	8.9
	Bair	7.0	4.4	5.1	6.3
	Martinsdale	23.1	10.6	11.3	10.4
	Deadman's Basin	72.2	44.4	69.2	53.0
	Fort Peck	19,410.0	15,930.0	16,140.0	13,470.0
Sun	Gibson	105.0	49.3	50.6	48.8
	Willow Creek	32.3	22.5	25.8	23.4
	Pishkun	32.0	30.9	30.4	23.1
Marias	Lower Two Medicine	16.6	-	-	-
	Four Horns	19.2	-	-	-
	Swift	30.0	14.1	20.9	20.6
	Lake Frances	112.0	44.3	96.6	84.6
	Tiber	1,347.0	549.4	497.6	611.2
Milk	Fresno	127.2	72.2	89.9	106.5
	Nelson	66.8	34.9	47.9	46.8
	Lake Sherburne	66.1	20.0	16.4	20.7
Yellowstone	Mystic Lake	20.8	4.2	1.6	3.1
	Tongue River	68.0	-	51.5	35.2
	Cooney	27.5	21.0	23.0	16.7
Bighorn	Bighorn Lake	1,356.0	759.0	940.9	783.9

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average

COLUMBIA RIVER DRAINAGE

Blackfoot River near Bonner	12,500 - 14,500	9,902
Clark Fork River above Missoula	20,000 - 24,000	16,531
Bitterroot River near Darby	9,000 - 11,000	6,650
Clark Fork River below Missoula	40,000 - 47,500	32,373
Clark Fork River at St. Regis	55,000 - 65,000	41,080
N. Fk. Flathead near Columbia Falls	28,000 - 31,000	23,167
M. Fk. Flathead near Columbia Falls	22,000 - 27,000	25,020

MISSOURI RIVER DRAINAGE

Big Hole River near Melrose	8,500 - 10,000	8,009
Jefferson River at Silver Star	10,000 - 12,000	8,810
Gallatin River near Gateway	6,500 - 7,500	5,369
Gallatin River near Logan	6,500 - 8,000	5,324
Missouri River at Toston	22,000 - 26,000	18,005
Belt Creek near Monarch	1,300 - 1,800	1,742
Marias River near Shelby	6,500 - 8,000	12,720
S. Fk. Musselshell at Martinsdale	750 - 900	745

YELLOWSTONE RIVER DRAINAGE

Yellowstone River at Livingston	24,000 - 27,000	20,560
Boulder River near Big Timber	5,400 - 6,400	5,100
Stillwater River near Absaroka	6,500 - 8,000	6,261
Clarks Fork River near Belfry	7,700 - 9,000	7,342
Rock Creek near Red Lodge	1,200 - 1,500	1,067
Yellowstone River at Billings	47,500 - 52,500	39,188

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET
	Thousand Acre Feet	Percent of Average		Last Year

COLUMBIA RIVER BASIN

KOOTENAI RIVER

Libby (near) (2)	8600	123	May-Sept	4962	6980
Below Libby Dam	7500	126	May-July	4153	5941
	5600	123	May-June	3182	4535

FISHER RIVER

Libby (near)	275	134	May-Sept		205
	255	136	May-July		188

YAAK RIVER

Troy (near)	645	143	May-Sept		451
	610	142	May-July		428

KOOTENAI RIVER

Leonia (at)	10500	127	May-Sept	5484	8262
	9200	129	May-July	4663	7146
	7100	126	May-June	3768	5620

FLINT CREEK

Boulder Creek (below) (3)	68.0	106	May-Sept		64.2
	54.0	111	May-July		48.5

MIDDLE FORK ROCK CREEK

Philipsburg (near)	92.0	128	May-Sept		72.2
	82.0	127	May-July		64.7

NEVADA CREEK

Finn (near)	23.2	133	May-Sept		17.5
	21.5	136	May-July		16.0

BLACKFOOT RIVER

Bonner (near)	1150	127	May-Sept	376	905
	1050	130	May-July	319	809
	910	132	May-June	274	688

CLARK FORK RIVER

Milltown (above) (4)	820	120	May-Sept	240	681
	710	123	May-July	196	579
	590	123	May-June	164	478

CLARK FORK RIVER

Missoula (above)	1970	124	May-Sept	616	1586
	1760	127	May-July	515	1387
	1500	128	May-June	438	1167

(2) Adjusted for storage in Lake Koocanusa.

(3) Sum Flint Creek at Maxville and Boulder Creek at Maxville.

(4) Difference in observed flow Clark Fork above Missoula and Blackfoot near Bonner.



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
WEST FORK BITTERROOT RIVER					
Conner (near) (5)	238	150	May-Sept	160	
	220	155	May-July	149	
BITTERROOT RIVER					
Darby (near)	760	144	May-Sept	266	528
	700	144	May-July	230	486
	590	139	May-June	203	423
SKALKAHO CREEK					
Hamilton (near)	67.0	125	May-Sept	53.8	
	59.0	126	May-July	46.8	
BURNT FORK CREEK					
Stevensville (near) (10)	43.0	129	May-Sept	33.3	
	37.5	129	May-July	29.0	
BITTERROOT RIVER					
Missoula (at) (6)	1860	135	May-Sept	1375	
	1720	136	May-July	1260	
	1500	138	May-June	1084	
CLARK FORK RIVER					
Missoula (below)	3830	129	May-Sept	2961	
	3480	131	May-July	2648	
	3000	133	May-June	2251	
ST. REGIS RIVER					
St. Regis (near)	360	139	May-Sept	259	
	340	140	May-July	242	
CLARK FORK RIVER					
St. Regis (at)	5150	131	May-Sept	1584	3936
	4730	134	May-July	1339	3517
	4100	137	May-June	1142	2992
NORTH FORK FLATHEAD RIVER					
Columbia Falls (near)	2300	127	May-Sept	1809	
	2100	129	May-July	1631	
	1750	128	May-June	1369	
MIDDLE FORK FLATHEAD RIVER					
West Glacier (near)	1900	109	May-Sept	1231	1740
	1760	111	May-July	1129	1590
	1450	108	May-June	968	1336
SOUTH FORK FLATHEAD RIVER					
Columbia Falls (near) (7)	2500	118	May-Sept	1314	2120
	2350	119	May-July	1238	1982
	2000	116	May-June	1111	1726

(5) Adjusted for storage in Painted Rocks Reservoir.

(6) Difference in observed flow Clark Fork above and below Missoula.

(7) Adjusted for storage in Hungry Horse Reservoir.

(10) Adjusted for diversion into Sunset Highline Canal.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
FLATHEAD RIVER					
Columbia Falls (at) (7)	6950	120	May-Sept	3831	5784
	6400	121	May-July	3543	5305
	5300	117	May-June	3102	4514
SWAN RIVER					
Big Fork (near)	800	129	May-Sept		622
	690	129	May-July		535
FLATHEAD RIVER					
Polson (near) (8)	8350	122	May-Sept	4245	6841
	7590	121	May-July	3997	6269
	6300	119	May-June	3477	5302
CLARK FORK RIVER					
Plains (near) (8)	14100	126	May-Sept	6011	11182
	12900	128	May-July	5412	10103
	10700	126	May-June	4662	8514
THOMPSON RIVER					
Thompson Falls (near)	295	129	May-Sept		229
	260	130	May-July		200
PROSPECT CREEK					
Thompson Falls (at)	155	134	May-Sept		116
	145	136	May-July		107
CLARK FORK RIVER					
Whitehorse Rapids (at) (9)	15600	124	May-Sept		11048
	14280	127	May-July		10012
	11800	124	May-June		8196

(7) Adjusted for storage in Hungry Horse Reservoir.

(8) Adjusted for storage in Hungry Horse Reservoir and Flathead Lake.

(9) Adjusted for storage in Hungry Horse, Flathead Lake and Noxon Rapids Reservoirs.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST Thousand Acre Feet	Percent of Average	FORECAST PERIOD	THOUSAND ACRE FEET Last Year

MISSOURI RIVER BASIN

BEAVERHEAD RIVER

Grant (near) (11) (12)	150	142	May-Sept	84.3	106
	135	153	May-July	65.5	88.3

RUBY RIVER

Alder (near)	107	127	May-Sept		84.5
	90.0	129	May-July		70.0

BIG HOLE RIVER

Melrose (near)	790	119	May-Sept		665
	720	118	May-July		610

BIRCH CREEK

Glen (near)	15.5	118	May-Sept		13.1
	13.0	119	May-July		10.9

JEFFERSON RIVER

Silver Star (at) (12)	1020	122	May-Sept		836
	890	122	May-July		732

WILLOW CREEK

Harrison (near)	25.6	152	May-Sept		16.8
	23.0	154	May-July		14.9

MADISON RIVER

Grayling (near) (13)	565	133	May-Sept	387	425
	445	139	May-Sept	282	319

MADISON RIVER

McAllister (near) (14)	1000	136	May-Sept	692	734
	785	141	May-July	512	558

GALLATIN RIVER

Gateway (near)	615	121	May-Sept		507
	525	124	May-July		422

(11) Adjusted for storage in Lima Reservoir.
 (12) Adjusted for storage in Clark Canyon Reservoir.
 (13) Adjusted for storage in Hebgen Lake.
 (14) Adjusted for storage in Hebgen and Ennis Lakes.



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD		
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
HYALITE CREEK					
Bozeman (near) (15)	52.0	125	May-Sept	41.5	
	45.0	127	May-July	35.5	
GALLATIN RIVER					
Logan (at)	680	135	May-Sept	505	
	575	137	May-July	420	
MISSOURI RIVER					
Toston (at) (16)	2800	133	May-Sept	1413	2104
	2400	135	May-July	1124	1781
SHEEP CREEK					
White Sulphur Springs (near)	22.0	113	May-Sept	9.5	19.5
	19.0	113	May-July	7.4	16.8
SUN RIVER					
Gibson Dam (at) (17)	620	112	May-Sept	269	556
	570	112	May-July	242	507
BELT CREEK					
Monarch (near)	120	104	May-Sept	115	
	110	105	May-July	105	
MISSOURI RIVER					
Fort Benton (at) (18)	4100	127	May-Sept	3227	
	3470	130	May-July	2660	
TWO MEDICINE CREEK					
Browning (near) (19)	250	111	May-Sept	226	
	240	113	May-July	213	
BADGER CREEK					
Browning (near)	128	108	May-Sept	119	
	110	108	May-July	102	
MARIAS RIVER					
Shelby (near) (20)	570	117	May-Sept	486	
	550	118	May-July	464	

- (15) Adjusted for storage in Middle Creek Reservoir.
- (16) Adjusted for storage in Hebgen and Ennis Lakes and Clark Canyon Reservoir.
- (17) Adjusted for storage in Gibson Reservoir and diversions.
- (18) Adjusted for storage in Canyon Ferry Reservoir.
- (19) Adjusted for storage in Two Medicine Reservoir and diversions into Two Medicine Canal.
- (20) Adjusted for storage in Two Medicine, Four Horns, Lake Frances and Swift Reservoirs.



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET
	Thousand Acre Feet	Percent of Average		Last Year
MISSOURI RIVER				
Virgelle (at) (21)	4800	126	May-Sept	3799
	4100	128	May-July	3199
SOUTH FORK JUDITH RIVER				
Utica (near)	14.0	101	May-Sept	13.9
	13.0	102	May-July	12.7
MISSOURI RIVER				
Landusky (near) (21)	5200	125	May-Sept	4150
	4450	127	May-July	3512
NORTH FORK MUSSELSHELL RIVER				
Delpine (near)	5.5	108	May-Sept	5.1
	4.5	107	May-July	4.2
SOUTH FORK MUSSELSHELL RIVER				
Martinsdale (above)	45.0	101	May-Sept	44.5
	43.0	103	May-July	41.7
MISSOURI RIVER				
Fort Peck Dam (below) (22)	4900	124	May-Sept	3936
	4350	128	May-July	3407
MILK RIVER				
Eastern Crossing (at)	230	104	May-Sept	33.8
MISSOURI RIVER				
Wolf Point (near) (22)	5200	127	May-Sept	4105
	4600	129	May-July	3567
MISSOURI RIVER				
Williston, N.D. (near) (29)	12900	125	May-Sept	10352
	11200	127	May-July	8787

SASKATCHEWAN RIVER BASIN

ST. MARY RIVER

Babb (near) (30)	525	126	May-Sept	417
	450	129	May-July	350

- (21) Adjusted for storage in Canyon Ferry and Tiber Reservoirs.
- (22) Adjusted for storage in Canyon Ferry, Tiber and Fort Peck Reservoirs.
- (29) Adjusted for storage in Canyon Ferry, Tiber, Fort Peck, Buffalo Bill, Boysen and Yellowtail Reservoirs. Sum Yellowstone River near Sidney and Missouri River near Culbertson.
- (30) Adjusted for storage in Lake Sherburne.



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET
	Thousand Acre Feet	Percent of Average		Last Year

YELLOWSTONE RIVER BASIN

YELLOWSTONE RIVER					
Corwin Springs (at)	2300	120	May-Sept	1422	1915
	1920	122	May-July	1168	1581
YELLOWSTONE RIVER					
Livingston (near)	2700	122	May-Sept		2212
	2240	123	May-July		1821
BOULDER RIVER					
Big Timber (at)	430	117	May-Sept		367
	405	120	May-July		338
STILLWATER RIVER					
Absarokee (near) (25)	650	114	May-Sept		571
	550	116	May-July		474
CLARKS FORK RIVER					
Belfry (near)	700	119	May-Sept		585
	620	118	May-July		524
ROCK CREEK					
Red Lodge (near)	126	117	May-Sept	107	108
	97.0	119	May-July	78	81.7
YELLOWSTONE RIVER					
Billings (at)	4850	121	May-Sept	3297	4016
	4160	123	May-July	2703	3383
BIG HORN RIVER					
St. Xavier (near) (26)	2200	128	May-Sept	1701	1724
	2080	132	May-July	1356	1580
LITTLE BIG HORN RIVER					
Lodgegrass (near) (28)	105	79	May-Sept		132
	90.0	78	May-July		115
YELLOWSTONE RIVER					
Miles City (at) (27)	7100	120	May-Sept		5931
	6350	124	May-July		5108
YELLOWSTONE RIVER					
Sidney (near) (27)	7500	122	May-Sept		6138
	6700	125	May-July		5367

(25) Adjusted for storage in Mystic Lake.
 (26) Adjusted for storage in Buffalo Bill, Boysen, Bull Lake and Yellowtail Reservoirs.
 (27) Adjusted for storage in Buffalo Bill, Boysen and Yellowtail Reservoirs.
 (28) Sum Little Big Horn below Pass Creek and Lodgegrass Creek near Wyola.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
NAME	Elevation					Average
ABUNDANCE LAKE	2800	4/29	76	32.4	17.4	23.0
ABUSKOSE	5480	5/02	34	14.8	12.2	13.9
ARCH FALLS	7350	4/30	48	18.4	17.0	16.2
AVALANCHE	7100	5/01	75	31.4	26.4	26.5
FAIR EAGLE PEAK	5700	5/02	189	92.5	47.7	69.5
FALL RIDGE	7500	5/02	50	11.0	12.7	14.6
BANFIELD MOUNTAIN	5600	5/02	74	37.2	14.4	23.7
BALFIELD MOUNTAIN PILLOW	5600	5/02	SP	30.9	14.3	20.9
BAKEE CREEK	5500	4/30	148	74.5	26.4	49.6
BAKEE HIGHWAY	4600	4/30	105	57.9	19.0	35.1
BAKEE TRAIL	3800	5/01	4	1.6	0	1.2
BASSWOOD PEAK	5150	5/02	15	6.8	0.7	8.5
BATTLE RIDGE	6020	5/01	0	0	-	5.4
BEAR BASIN	8150	4/29	89	32.3	20.8	24.9
BEAR MOUNTAIN (ID)	5400	4/29	234	118.0	43.6	68.6
BEAR PAW SKI AREA	5200	4/30	0	0	3.8	7.2
BEERY MEADOW	7000	4/29	20	5.2	5.0	9.2
BIG COULEE	5100	5/01	7	2.7	-	-
BIG CREEK	6750	5/01	151	73.5	41.2	54.5
BIG SKY M.V.	7450	4/29	62	25.8	16.0	-
BIG SNOWY	7150	5/01	64	27.6	26.0	24.9
BIG SPRINGS (ID)	6500	4/29	53	23.3	16.6	-
BLACK BEAR	7950	4/29	157	66.6	35.3	-
BLACK BEAR PILLOW	7950	4/29	SP	63.8	35.0	-
BLACK CANYON (ID)	7850	4/25	121	52.6	34.3	-
BLACK MOOSE (ID)	8120	4/25	155	59.8	38.2	-
BLACK PINE	7100	4/29	42	17.6	9.1	14.3
BLACK PINE PILLOW	7100	4/29	SP	16.3	10.4	15.2
BLODY DICK	7600	5/01	40	16.0	8.8	14.2
BOTS SOTS	8000	4/30	50	11.4	20.8	-
BOULDER MOUNTAIN	7950	4/29	76	31.1	16.1	22.2
BONELDER CREEK	5100	4/30	0	0	5.0	-
BOTHAM LAKES	8850	4/29	107	45.0	32.2	36.6
BOTTIGER BOLE	7250	5/01	85	38.4	30.2	35.1
BOTTIGER BOLE PILLOW	7250	5/01	SP	36.3	29.4	34.0
BRESTOW CREEK	6900	5/02	0	0	0	2.3
BRUSH CREEK TIMBER	5000	4/30	24	9.5	3.0	8.2
BULL MOUNTAIN	6600	5/01	0	0	-	-
CABIN CREEK	5200	4/24	8	2.6	0	2.2
CALL ROAD	8050	4/29	47	16.7	15.1	13.9
CALVERT CREEK	6450	4/27	28	11.8	3.8	9.2
CAMP MISERY	6400	5/01	160	88.0	47.9	52.3
CAMP SENIA	7890	4/30	29	10.7	17.3	9.8
CANYON (WY)	7750	5/01	47	20.0	13.6	16.0
CARROT BASIN	9000	5/01	117	54.8	40.3	43.4
CARROT BASIN PILLOW	9000	5/01	SP	41.3	-	-
CEFOR GROVE	4100	5/01	28	12.1	0	6.8
CHESMAN RESERVOIR	6200	5/01	0	0	3.1	2.5

SNOW

DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
			Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
NAME	Elevation					Average
CLEVER MEADOW	8600	4/29	58	24.5	19.5	20.8
COLE CREEK	7850	5/01	53	20.0	-	-
COMBINATION	5600	4/29	4	1.6	0.0	5.9
COMBINATION PILLOW	5600	4/29	SP	0.0	0.0	-
COKE STATION	8150	4/26	51	24.2	16.6	22.0
COPPER BOTTOM	5200	5/03	6	2.6	0.0	-
COPPER CAMP	6950	5/03	80	39.2	20.8	-
COPPER CREEK	5700	5/03	20	9.1	2.8	12.4
COPPER LAKE CREEK	6100	5/03	58	26.4	13.8	-
COPPER MOUNTAIN	7700	4/30	31	11.6	7.7	12.5
COYOTE HILL	4200	5/01	6	2.0	0.0	3.5
CRYSTAL LAKE	6100	5/01	52	15.9	21.2	16.2
DAI CREEK LAKE	8400	4/29	52	19.5	17.5	17.6
DATSY PEAK	7600	4/29	27	8.6	13.7	12.4
DARKHORSE LAKE	8600	4/29	91	39.4	21.9	29.4
DAVIS CREEK	5400	4/30	71	37.2	16.9	24.2
DEADMAN CREEK	6450	5/01	21	9.0	6.7	10.6
DEADMAN CREEK PILLOW	6450	5/01	SP	8.0	6.0	8.2
DESERT MOUNTAIN	5600	5/02	51	22.0	11.8	15.2
DEVILS SLICE	8100	4/30	84	32.4	26.4	28.6
DIVIDE	7800	4/29	36	12.8	10.8	11.5
FLY HILL	6400	5/01	6	2.2	-	-
FAST BOULDER S	9250	4/30	96	41.5A	28.0	-
FLY HORN SPRINGS	7800	4/30	54	10.9	6.5	9.1
ELK PEAK	8000	4/30	58	22.6	13.8	22.1
FATTY CREEK	5500	5/01	80	36.2	17.9	25.0
FISHER CREEK	9100	4/26	128	57.2	35.4	42.4
FISHER CREEK PILLOW	9100	4/26	SP	54.7	33.4	38.9
FLEECER RIDGE	7500	5/01	32	11.4	-	-
FOOLHEN	6280	4/29	61	25.2	12.4	19.9
FOUR MILE	6900	5/02	19	7.4	11.6	8.8
FRED BURR PASS	8000	4/29	85	32.1	21.7	32.6
FROHNER MEADOWS	6480	4/30	15	5.5	6.4	-
FROHNER MEADOWS PILLOW	6480	4/30	SP	9.2	9.6	-
GARVER CREEK	4250	4/30	14	6.1	0.0	5.4
GARVER CREEK PILLOW	4250	4/30	SP	6.1	-	5.1
GIBBONS PASS	7100	5/01	70	31.9	20.2	24.2
GOST MOUNTAIN	7000	4/25	50	10.4	4.4	10.9
GOLD STONE	8100	5/01	56	22.9	12.6	19.4
GRASSHOPPER	7000	4/30	11	4.9	6.4	5.9
GRAVES CREEK	4300	4/29	54	25.0	7.6	16.3
GRIFFIN CREEK DIVIDE	5150	5/01	25	10.7	3.4	8.6
GRIZZLY PEAK	8400	5/01	54	20.2	35.8	21.1
HAWKINS LAKE	6450	4/30	116	51.5	29.6	55.4
HAWKINS LAKE PILLOW	6450	4/30	SP	52.1	26.9	33.2
HEART LAKE TRAIL	4800	5/03	58	26.4	1.6	19.0
HEGEN DAM	6550	5/02	11	4.5	6.2	6.6
HELL ROARING DIVIDE	5770	5/01	102	47.7	25.0	34.3
FISHWOOD DIVIDE	5650	5/01	0	0.0	-	-
HITCHCOOK STATION	4600	5/01	2	0.4	-	-

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
NAME	Elevation					Average
BOE SHOCK	4550	5/10/2	4	1.6	.0	1.9
BOE MEADOW	6600	4/30	55	14.5	17.5	11.6
BOE 2000 EAST	6000	5/10/2	155	75.2	54.8	55.2
BOE 2000 CREEK	5900	5/10/2	148	72.3	51.5	52.2
BOESEN BAY DIVIDE	5800	4/20	54	22.8	14.3	20.6
BOHRBERG LAKE #5	5600	5/10/2	90	43.6	32.2	33.5
BODEPENDENCE	7850	5/10/2	50	23.6	18.2	19.8
BOERGAARD	6450	5/10/2	23	8.9	6.2	9.1
BOIS D'ARC PARK (ID)	6510	4/20	58	15.2	8.1	16.2
BOATLAKE LAKE TRAIL	7200	5/10/2	28	10.8	9.0	8.3
BOEISDORF PARK	6450	4/20	0	0.0	2.1	3.5
BOSEPHINE LOWER #9	4900	4/10/2	58	25.0	13.7	18.9
BOESES HILL	7500	4/20	50	19.0	12.0	17.1
BOEANIS CAMP	6720	5/10/2	0	0.0	1.2	-
BOE CAMP (WY)	7850	4/10/2	51	17.8	5.2	8.4
BOE CREEK	6100	5/10/2	6	2.0	-	2.7
BOEVIEW CANYON	6450	4/10/2	57	15.5	9.4	12.2
BOEVIEW EDGE	7400	4/10/2	29	10.5	8.0	10.0
BOEATH SPRINGS (ID)	7650	4/20	110	52.0	34.0	-
BOE CREEK	6860	4/10/2	28	10.0	17.2	11.1
BOE CREEK PILLOW	6860	4/10/2	SP	9.2	15.3	10.7
BOE LITTLE PARK	7400	4/20	60	25.3	14.0	18.3
BOEAY CREEK	4300	4/10/2	4	1.6	.0	2.7
BOE O PASS (ID)	5230	4/20	64	40.5	13.5	32.3
BOE OPUT (ID)	5250	5/10/2	110	48.0	15.8	37.7
BOE O HORSE	5940	4/10/2	105	50.4	28.0	34.3
BOE O SOUL	4800	5/10/2	52	14.5	2.0	8.9
BOE LOWER TWINS	7900	5/10/2	68	30.2	25.0	26.0
BOEURECHT FLUME	4500	4/20	0	0.0	.0	.0
BOEURECHT FLUME PILLOW	4500	4/20	SP	0.0	.0	.0
BOEURECHT FOREST # 3	5450	4/20	0	3.0	.4	4.0
BOEURECHT FOREST # 4	4650	4/20	0	0.0	.0	.4
BOEURECHT FOREST # 6	4040	4/20	0	0.0	.0	.0
BOEURECHT HYDROPILOT	4200	4/20	0	0.0	.0	.0
BOEUNE CREEK (WY)	7600	4/20	54	12.0	6.0	7.7
BOEISON PLATEAU	7750	4/20	79	55.4	20.8	22.4
BOEISON PLATEAU PILLOW	7750	4/20	SP	36.7	21.3	23.7
BOEIAS PASS	5250	5/10/2	42	17.6	7.5	19.3
BOEYARD CREEK	6210	5/10/2	45	21.6	20.5	21.8
BOEYARD CREEK PILLOW	6210	5/10/2	SP	15.0	11.6	14.1
BOE MIDDLE MIL CREEK	7550	4/20	59	23.5	17.2	18.4
BOE MIL CREEK	7500	4/20	54	12.2	17.7	16.5
BOE MINERAL CREEK	4600	4/10/2	50	20.7	5.0	14.1
BOE MONUMENT PEAK	8800	5/10/2	92	39.0	22.5	31.6
BOE SE CREEK (ID)	6200	4/20	47	20.9	11.8	16.0
BOE MOUNT ALLEGRA # 7	5700	4/10/2	107	97.0	43.0	50.1
BOE MOUNT LOCKHART	6400	4/20	59	22.4	15.0	25.4
BOE MOUNT LOCKHART PILLOW	6400	4/20	SP	26.7	14.4	23.5
BOE MEL LAKE	7650	4/10/2	56	25.0	13.6	23.5
BOE PERCE CAMP	5550	4/20	41	19.0	6.5	12.5

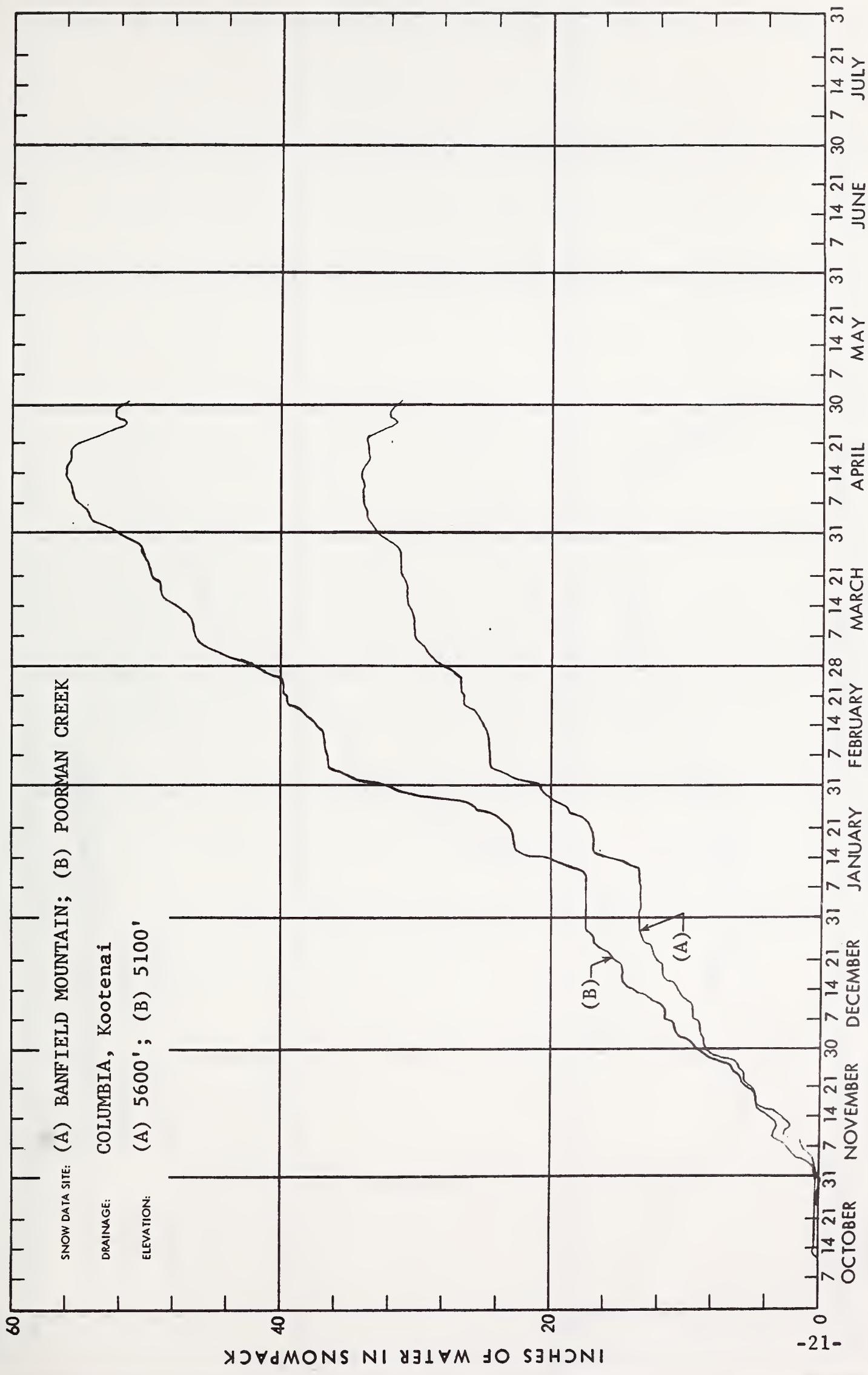


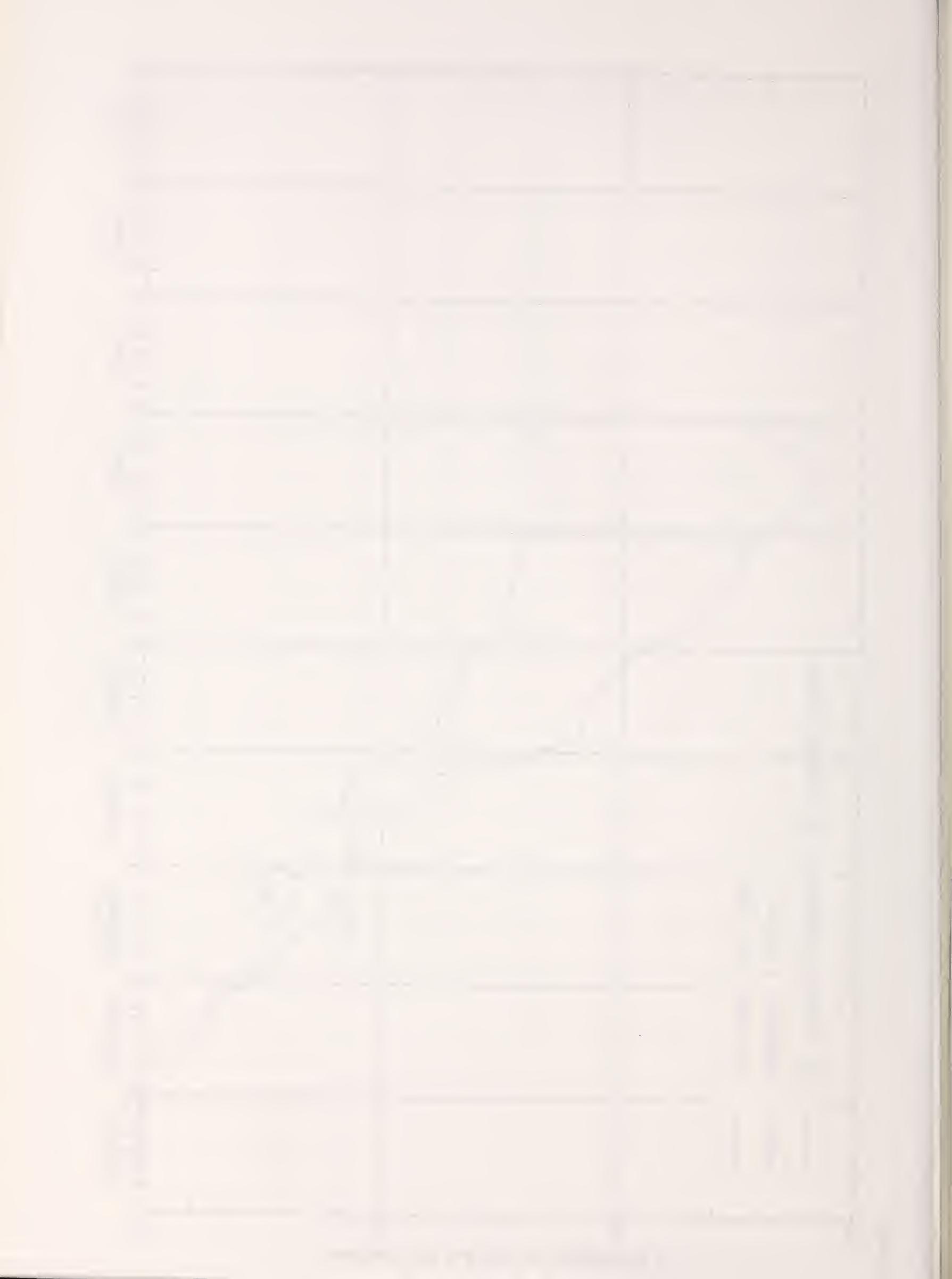
SNOW

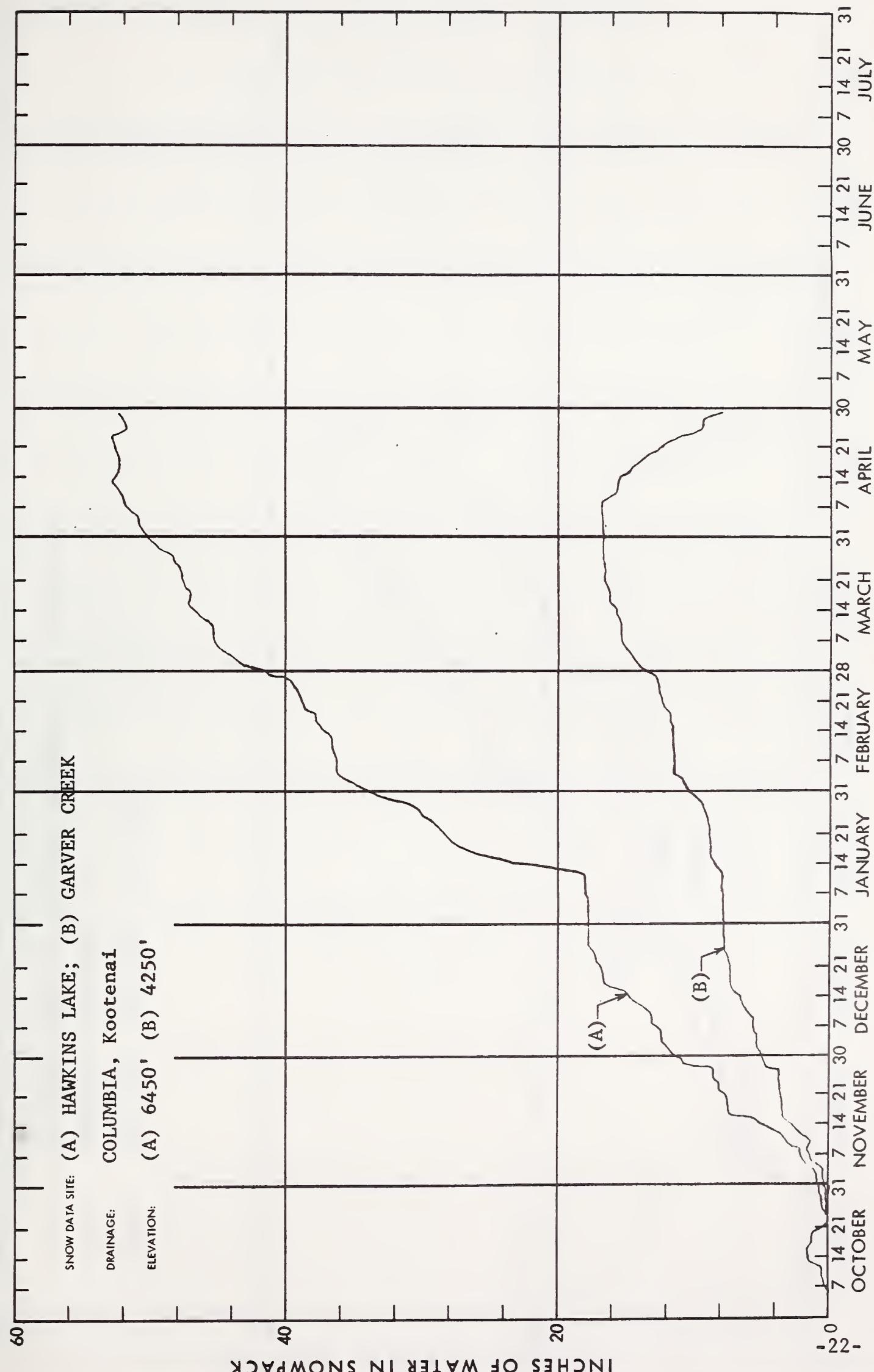
DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
NAME	Elevation					Average
NEZ PERCE CREEK	6500	4/30	0	0	3.5	3.5
NEZ PERCE PASS	6570	4/29	54	23.0	10.7	15.6
NOISY BASIN	6040	5/01	161	75.5	-	-
NOISY CREEK	3600	5/01	0	0	0	-
NOOKRIS BASIN (WY)	7500	4/26	26	9.7	7.6	8.0
NORTH FK. ELK CREEK	6250	4/30	25	11.1	5.3	11.8
NORTH FK. ELK CREEK PILL	6250	4/30	SP	9.5	4.4	11.8
NORTH FORK JOCHE	6330	5/02	119	57.1	31.2	51.3
NORTH MEADOW	7500	5/02	34	11.7	13.4	11.5
NORTH-EAST ENTRANCE	7400	5/01	26	8.5	6.4	7.8
NORTH-EAST ENTRANCE PILL.	7400	5/01	SP	8.2	3.0	4.2
PATCH	6500	4/29	62	24.4	15.6	18.5
PEAK PARK	7150	5/01	48	19.7	-	-
PALISADE CREEK	8250	4/30	94	43.5	25.0	34.2
PETGAN PASS #6	5500	4/30	117	57.6	37.9	43.1
PETERSON MEADOWS	7200	4/30	34	10.7	10.2	-
PETERSON MEADOWS PILL	7200	4/30	SP	12.3	11.1	-
PICKET PIN 0	9450	4/30	55	55.0A	28.5	-
PICKET PIN LOWER	6200	5/03	0	0	6.4	-
PICKET PIN MIDDLE	7250	5/03	9	4.2	18.6	-
PICKET PIN UPPER	8100	5/03	69	28.7	25.9	-
PICNIC GROUNDS	6200	4/30	0	0	0	2.8
PIPESTONE PASS	7200	4/30	0	0	5.4	6.1
PLACER BASIN F	8800	4/30	65	26.5A	25.0	-
POORMAN CREEK	5100	5/01	99	50.2	16.0	33.2
POORMAN CREEK PILL	5100	5/01	SP	51.1	17.9	31.4
PORCUPINE R.S.	6500	5/02	10	4.0	9.5	8.9
PATOMAGETON PARK	7150	4/30	32	14.2	11.2	12.0
PTARFICAN 18	5800	5/01	110	51.2	36.0	42.0
RED LION	7100	4/29	54	21.4	10.4	19.0
RED MOUNTAIN	6000	4/30	72	33.1	14.1	21.0
ROCK CREEK	5600	5/01	0	0	15.3	10.4
ROCKER PEAK	8000	4/29	51	17.6	14.0	18.0
ROCKER PEAK PILL	8000	4/29	SP	19.7	14.8	20.1
ROCKY BOY	4700	4/30	0	0	3.6	1.5
ROCKY BOY PILL	4700	4/30	SP	0	2.1	2.9
SACAJAWEA	6550	5/01	36	15.8	15.8	14.3
SADDLE MOUNTAIN	7940	5/01	83	37.8	22.6	28.8
SADDLE MOUNTAIN PILL	7940	5/01	SP	39.8	22.0	30.2
SAWTELL MOUNTAIN (ID)	8710	4/29	116	49.9	33.5	38.1
SENTINEL CREEK	8300	4/30	68	30.8	22.3	26.1
SHOWER FALLS	8100	4/30	90	38.2	29.7	32.4
SHOWER FALLS PILL	8100	4/30	SP	34.6	29.3	32.2
SKALKaho SUMMIT	7260	4/29	78	32.7	18.2	28.0
SLIDE ROCK MOUNTAIN	7100	4/30	57	25.6	12.0	20.0
SMUGGLER MINE	6960	4/29	55	12.1	10.0	11.6
SOUTH FORK SHIELDS	8100	5/02	77	33.2	24.6	30.0
SPUR PARK	8000	5/01	60	27.0	16.0	26.0
SPUR PARK PILL	8100	5/01	SP	26.2	15.5	25.8

SNOW

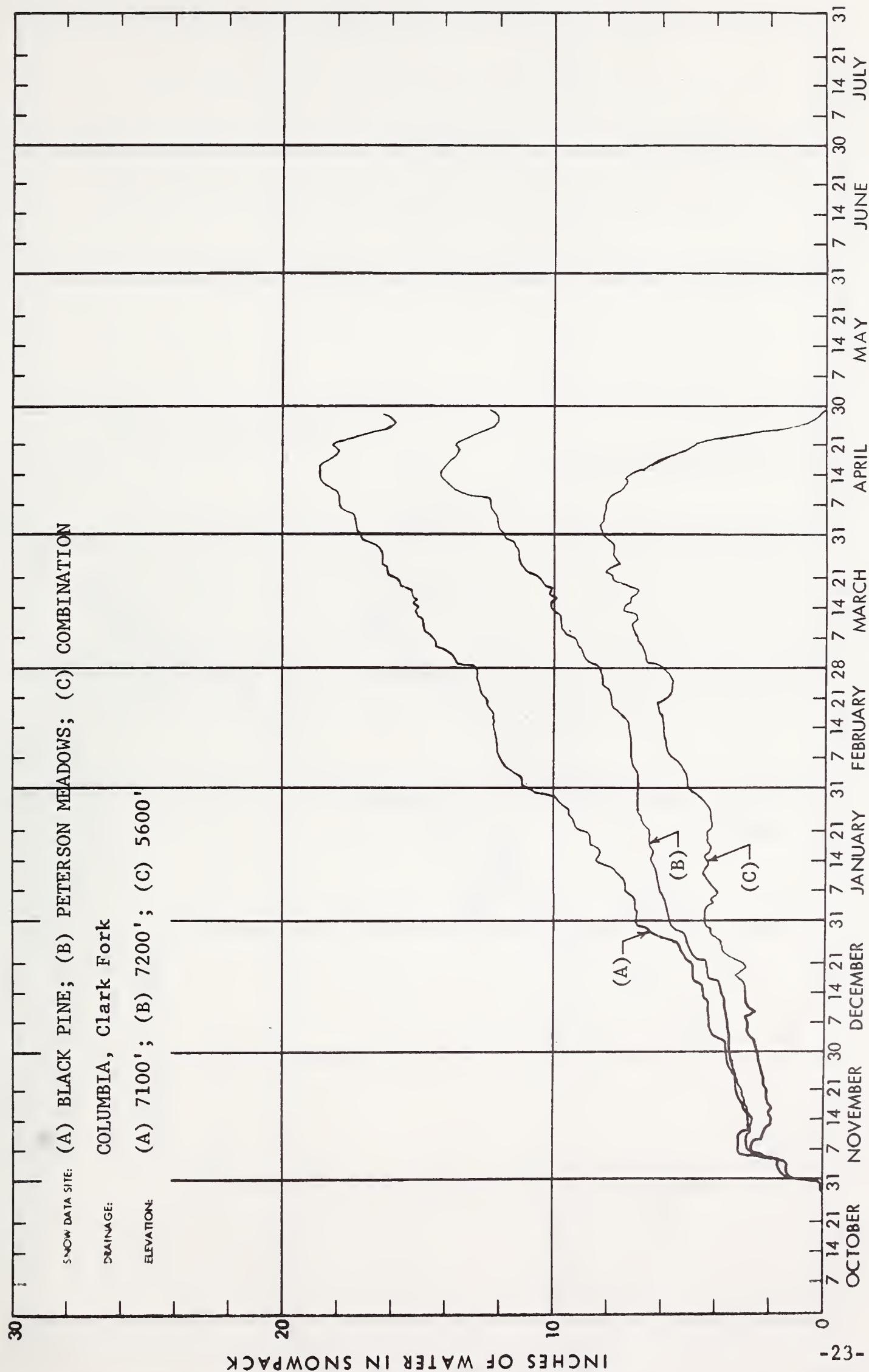
DRAINAGE BASIN and/or SNOW COURSE		Elevation	THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
NAME							Average
STAHL PEAK		6050	4/29	152	66.6	43.9	44.3
STAR LAKE E		8600	4/30	144	66.0A	38.0	-
STEMPLE PASS		6600	5/01	50	9.4	9.2	11.9
STORM LAKE		7780	4/30	42	13.1	15.2	17.4
STUART MILL		6500	5/01	0	.0	2.7	6.7
STUART MOUNTAIN		7400	5/01	93	42.7	26.7	35.8
SUCKER CREEK		3960	4/30	0	.0	2.7	-
SYLVAN PASS (WY)		7100	4/30	35	12.9	9.8	11.1
TARGHEE PASS (ID)		7000	4/29	44	15.9	9.6	15.4
TAYLOR ROAD		4080	4/30	0	.0	2.6	-
TEN MILE LOWER		6600	5/02	12	4.0	7.8	6.0
TEN MILE MIDDLE		6800	5/02	56	11.2	12.9	13.8
TEN MILE UPPER		8000	5/02	44	14.6	14.2	17.1
TEPEE CREEK		8000	5/02	58	22.4	-	18.0
TEPEE CREEK PILLOW		8000	5/02	SP	16.9	13.0	-
TIMBERLINE CREEK		8850	4/30	60	21.9	25.2	19.8
TV MOUNTAIN		6800	5/01	61	25.7	13.4	21.9
TWELVEMILE CREEK		5600	4/30	58	27.2	4.5	15.6
TWELVEMILE CREEK PILLOW		5600	4/30	SP	27.6	8.4	14.5
TWENTY-ONE MILE		7150	5/02	48	22.1	10.6	17.6
TWIN LAKES		6510	4/30	153	63.9	30.9	46.8
TWIN LAKES PILLOW		6400	4/30	SP	55.7	28.7	44.8
VALLEY VIEW (ID)		6500	4/29	50	11.8	8.0	14.2
WALDRON		5600	4/26	11	4.1	.0	7.5
WALDRON PILLOW		5600	4/26	SP	9.3	5.8	10.2
WEASEL DIVIDE		5450	4/29	119	53.1	30.4	37.2
WEST YELLOWSTONE		6700	5/02	21	9.2	6.9	7.2
WEST YELLOWSTONE PILLOW		6700	4/29	SP	8.5	5.8	6.5
WHISKEY CREEK		6800	4/29	58	27.6	16.0	20.3
WHISKEY CREEK PILLOW		6800	4/29	SP	23.8	14.9	-
WHITE ELEPHANT (ID)		7700	4/29	93	39.5	24.6	-
WHITE MILL		8700	4/26	93	40.7	25.4	30.0
WHITE MILL PILLOW		8700	4/26	SP	34.5	-	-
WHITE PINE RIDGE		8850	4/29	16	4.4	7.6	5.0
WILLOW CREEK		6500	5/01	1	.4	-	-
WOLVERINE (WY)		7650	5/01	31	11.0	7.3	-
WRONG CREEK		5700	4/23	35	14.5	3.6	11.9
WRONG RIDGE		6800	4/23	57	24.7	11.9	22.2



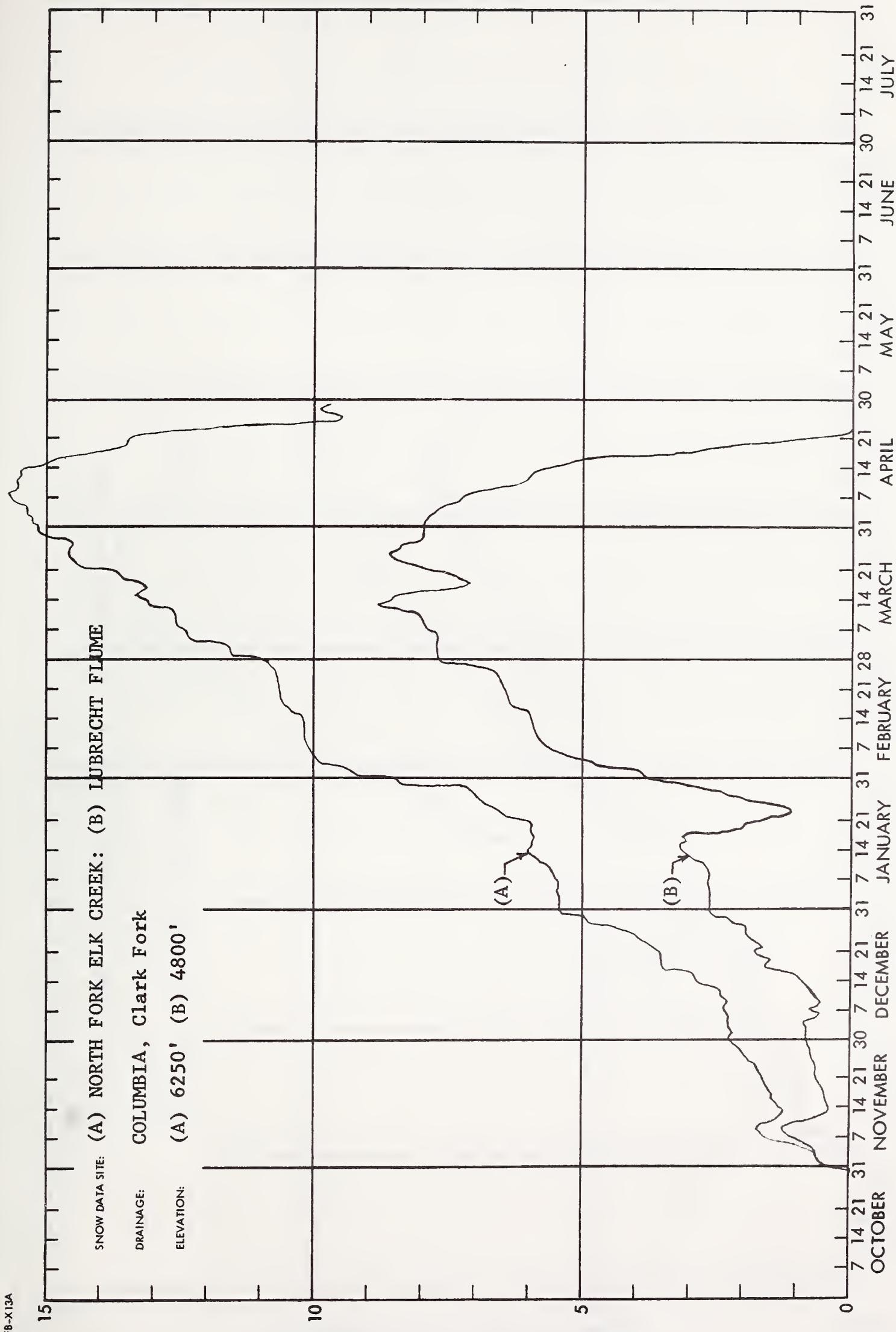




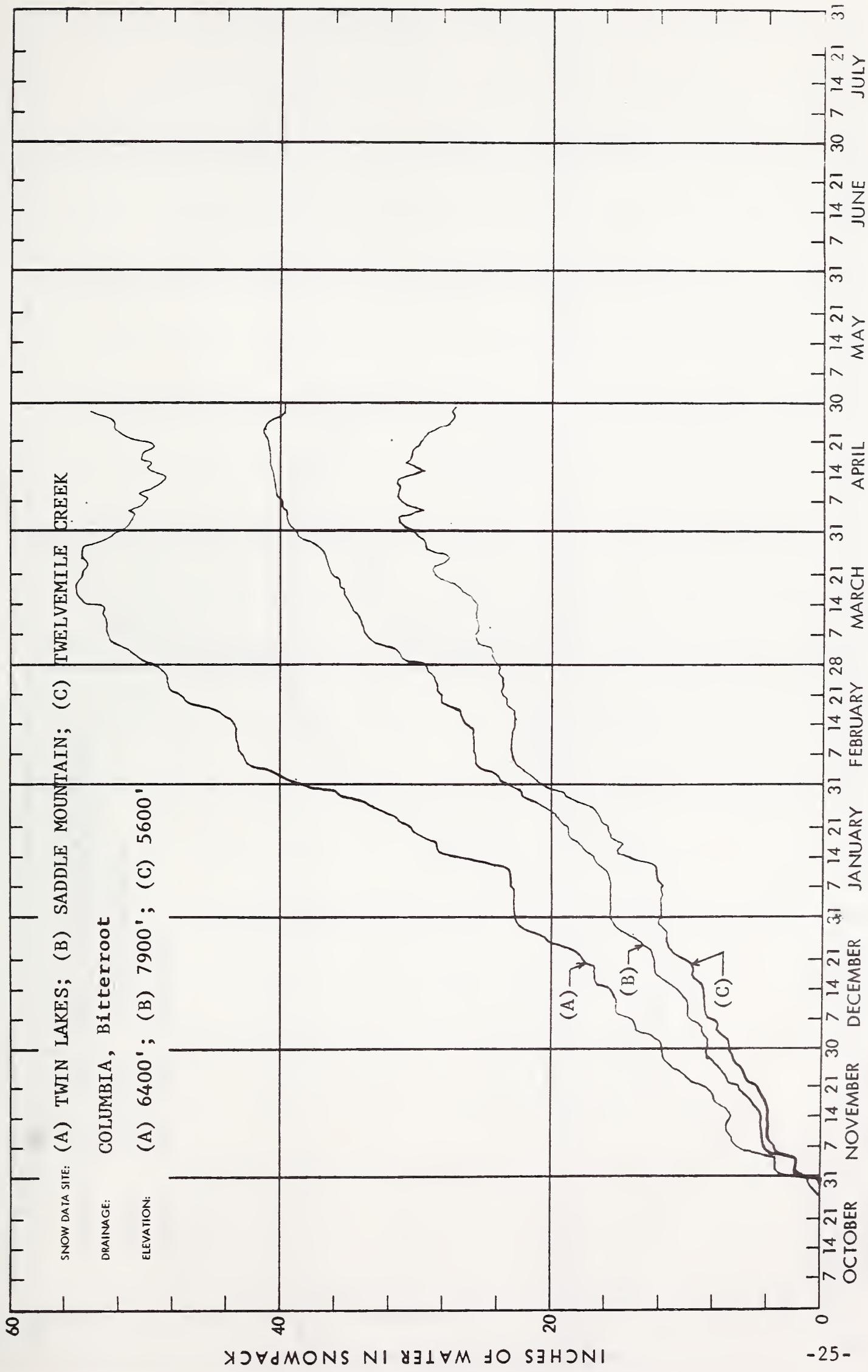




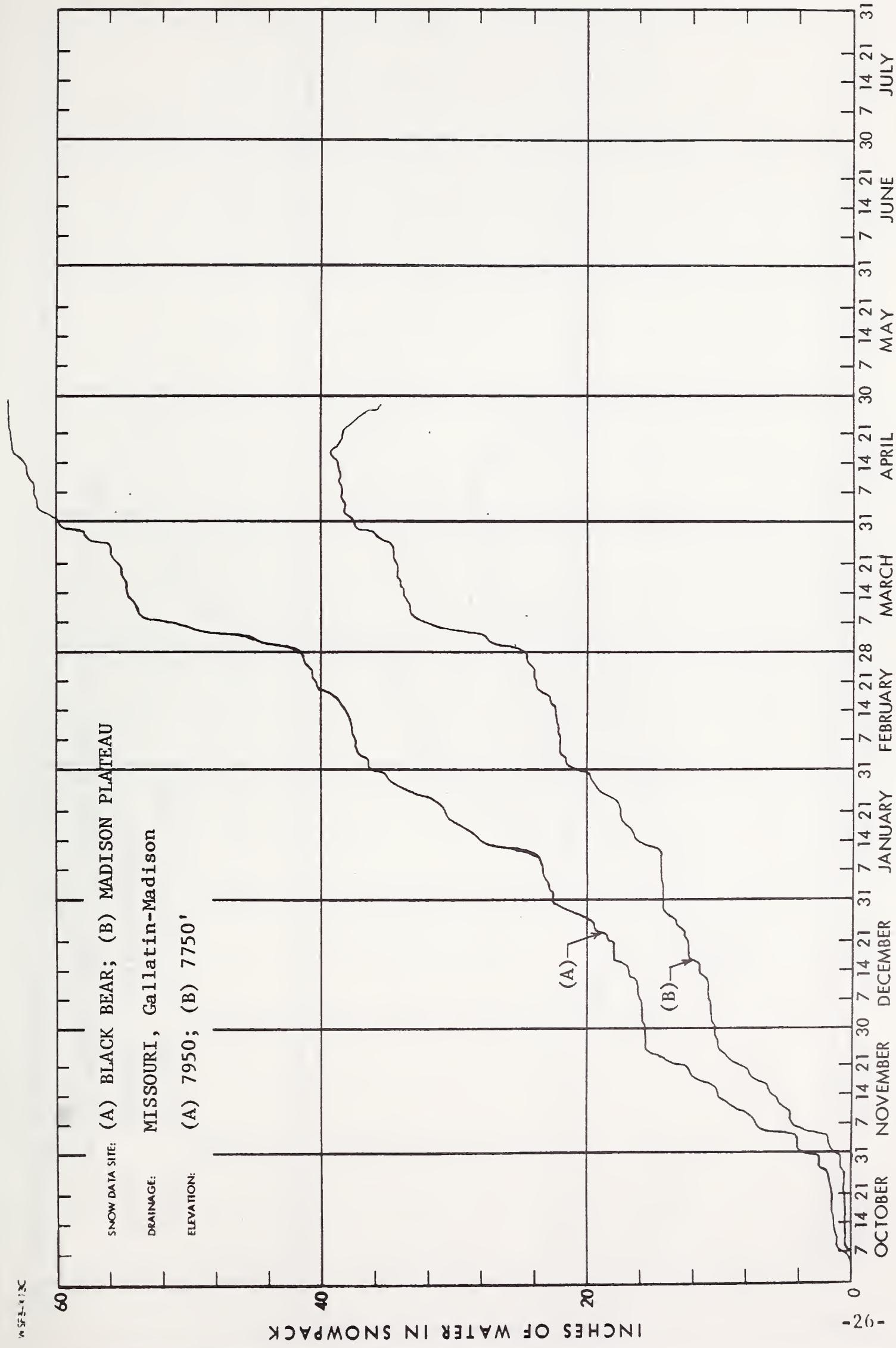




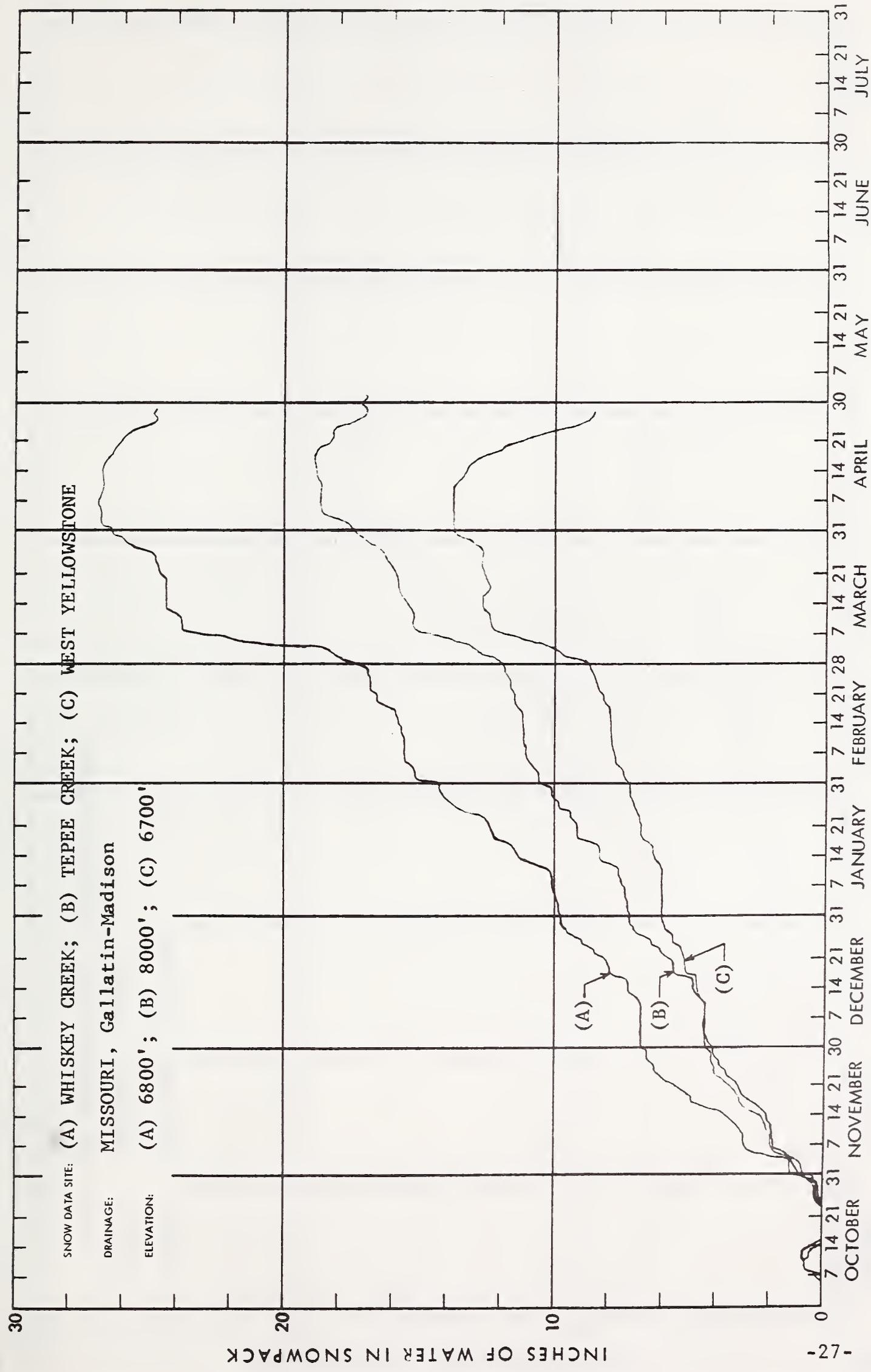




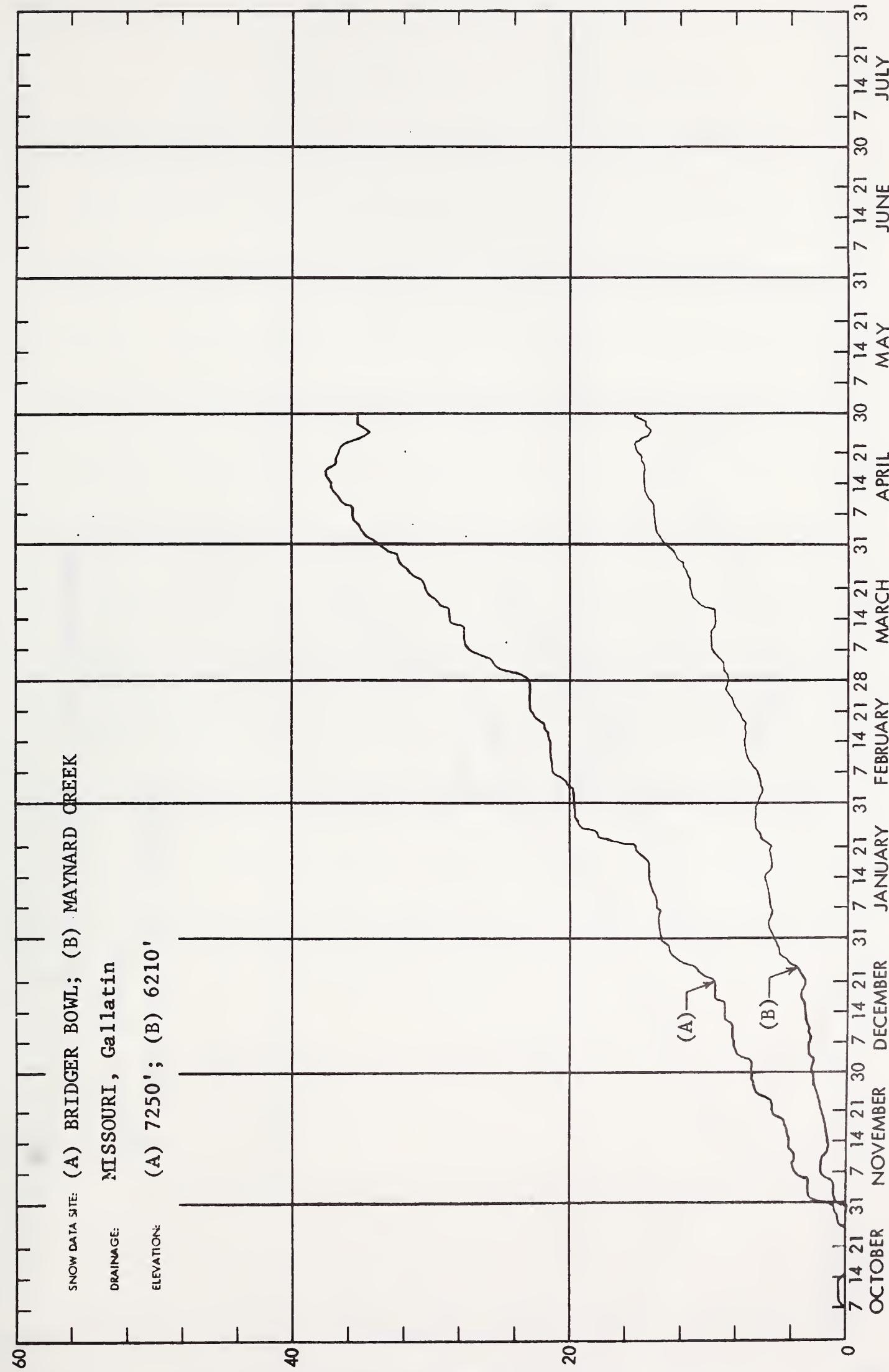




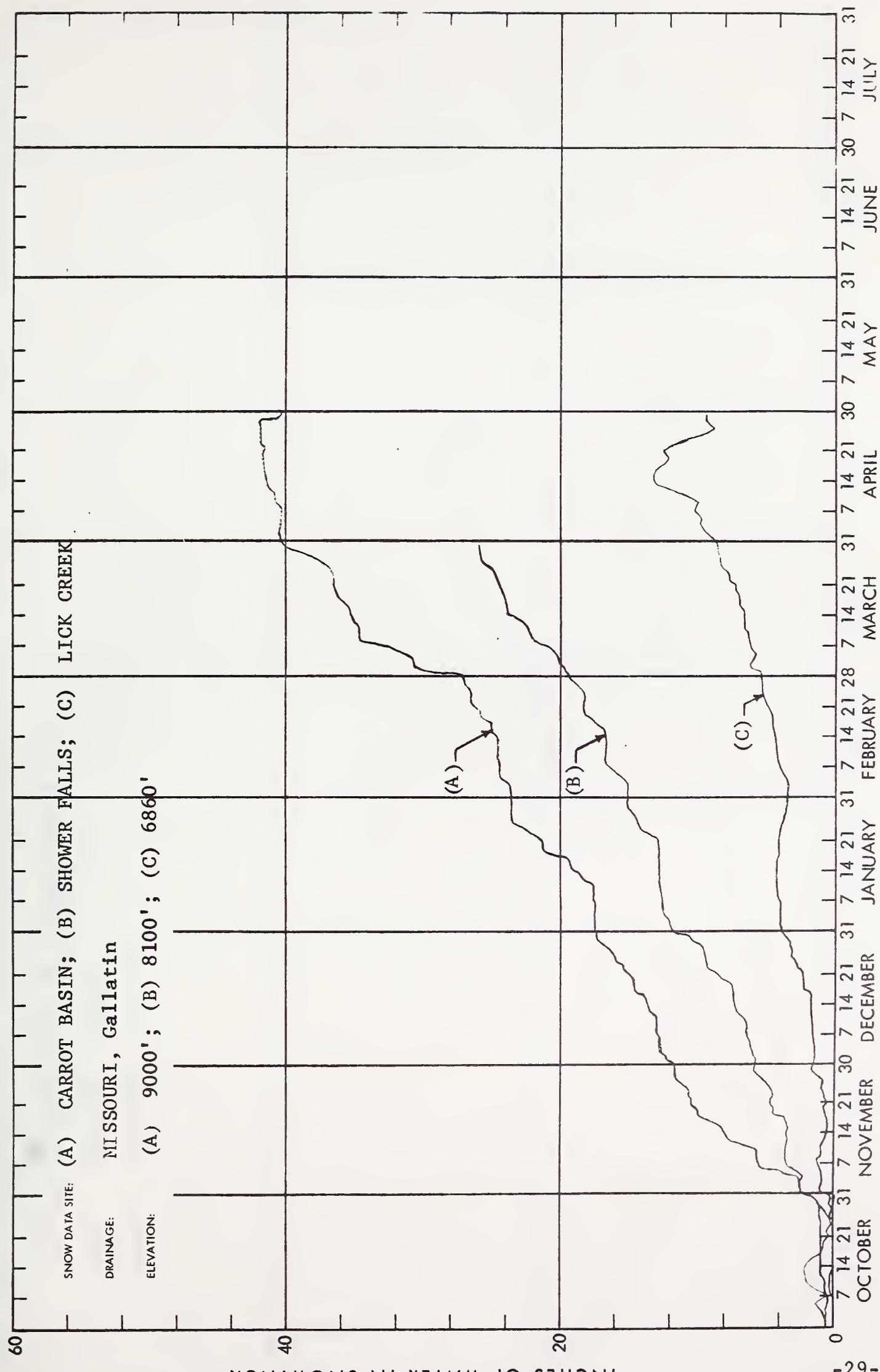




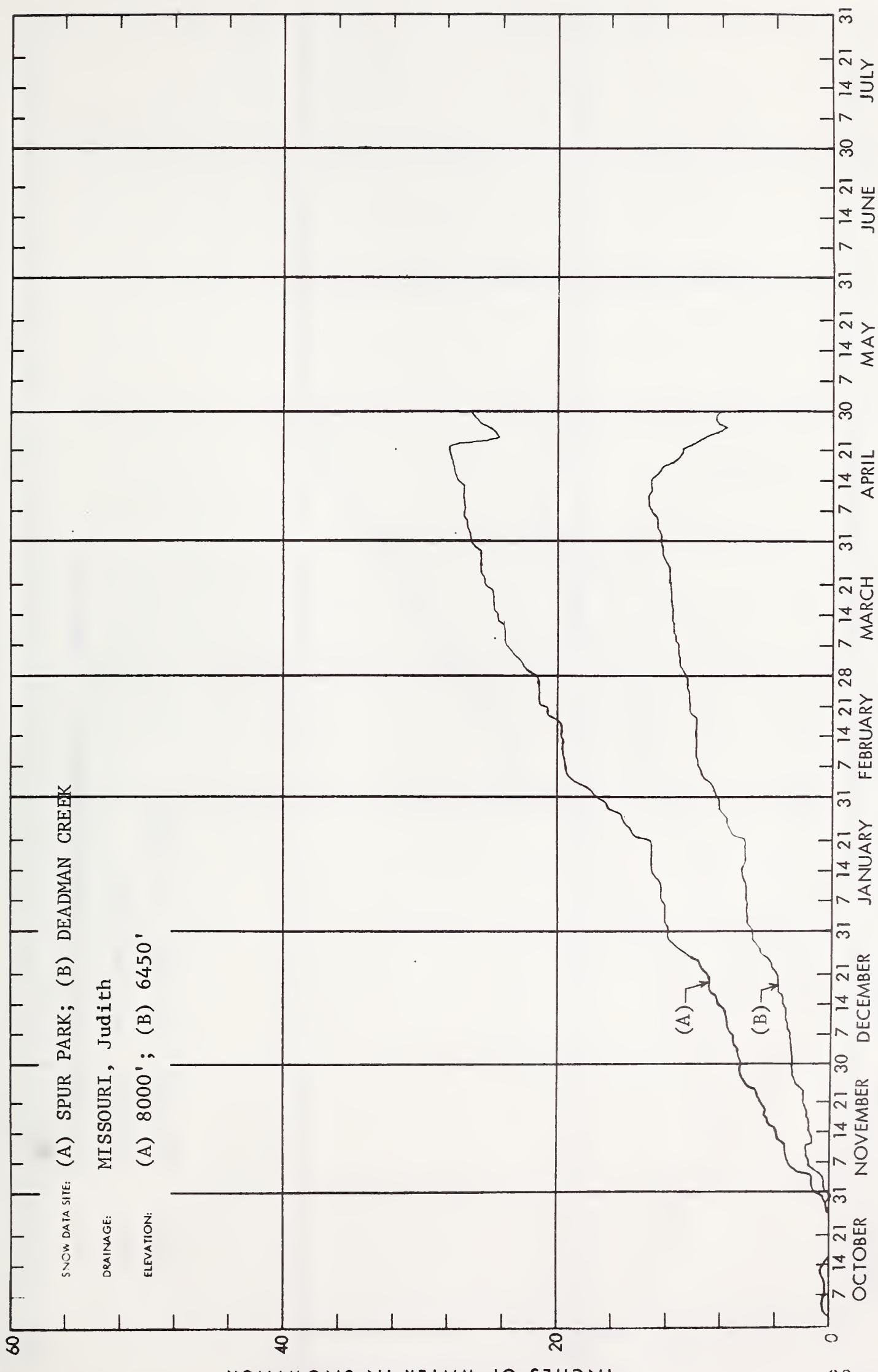




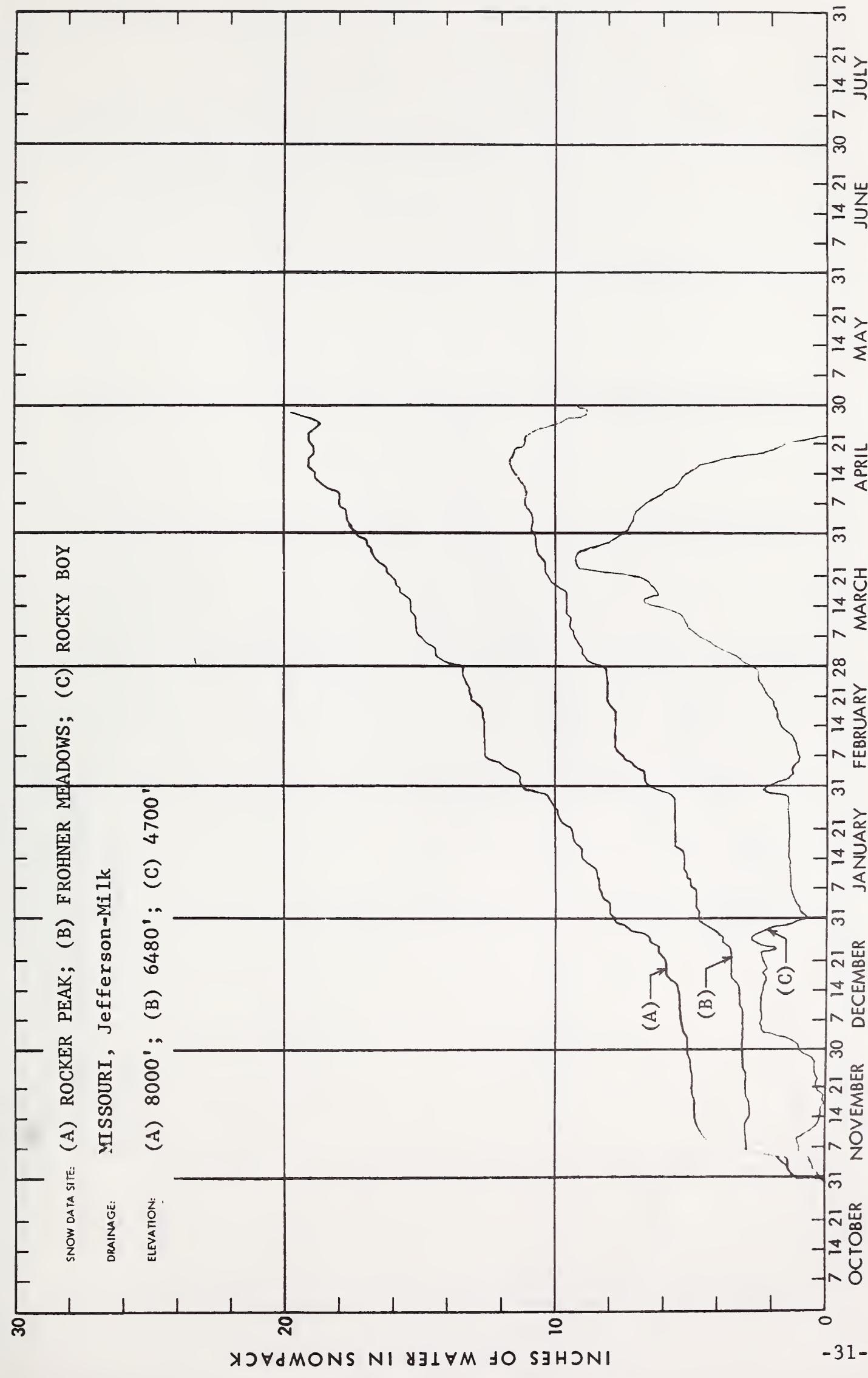




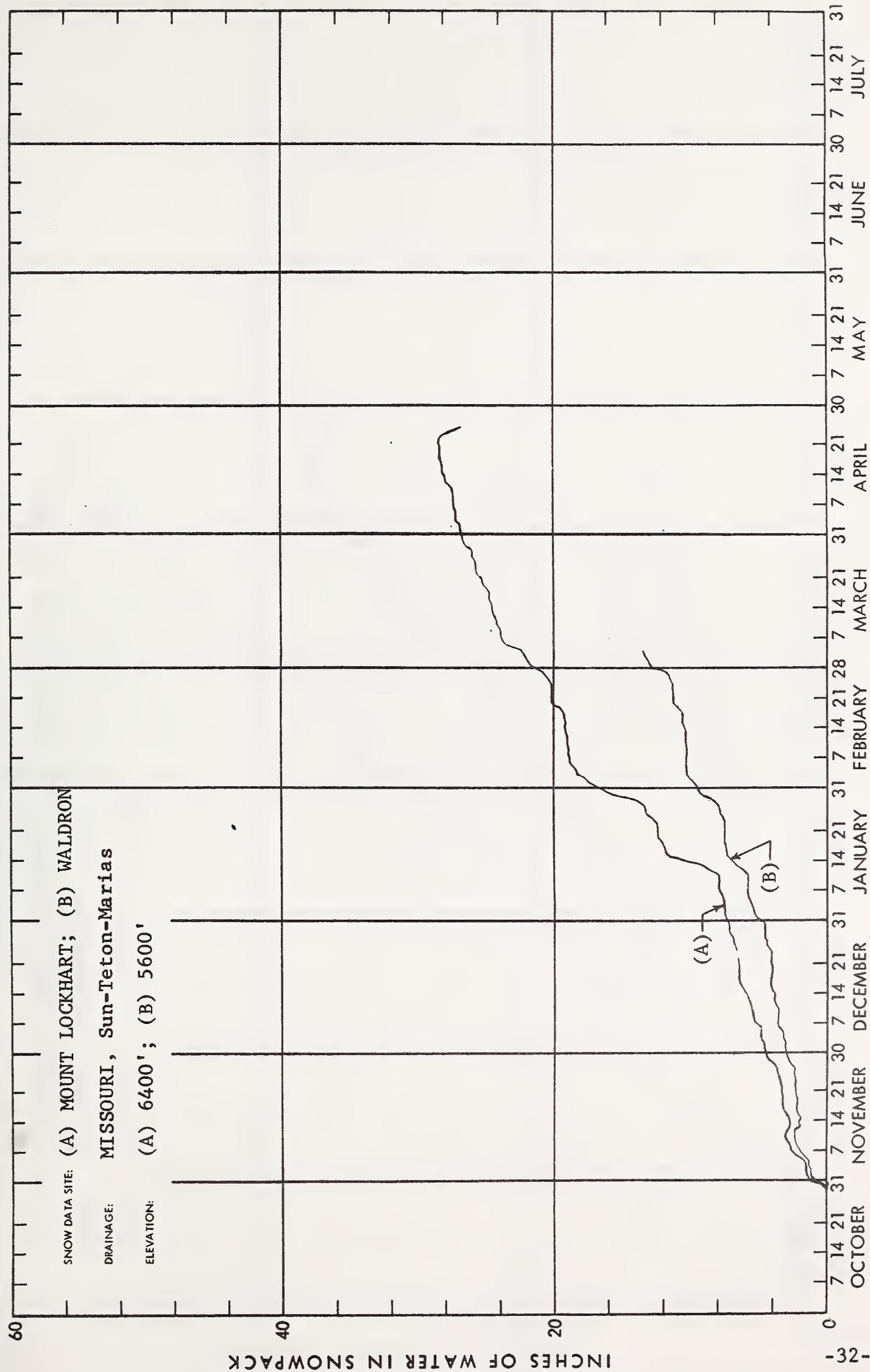


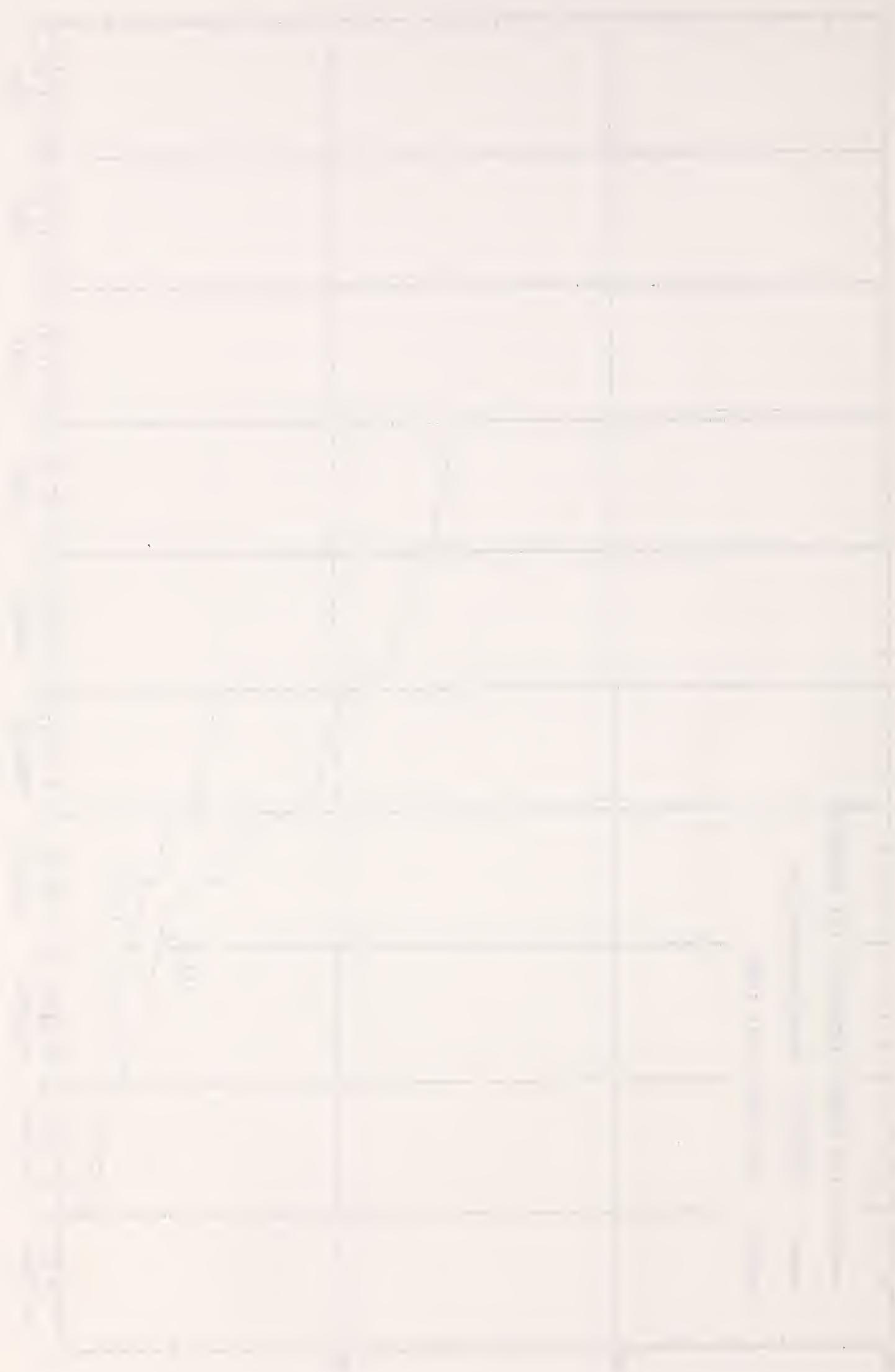


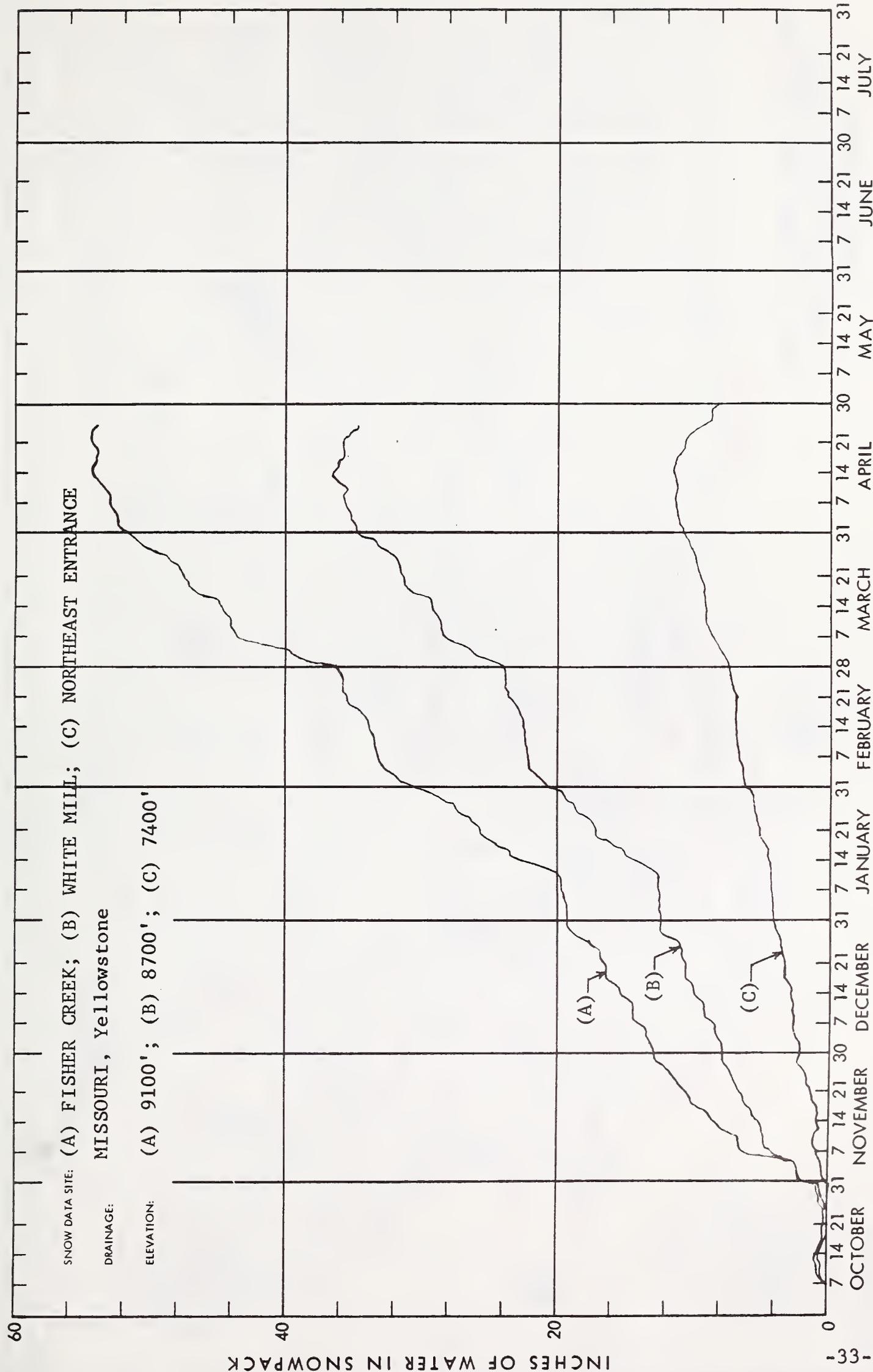




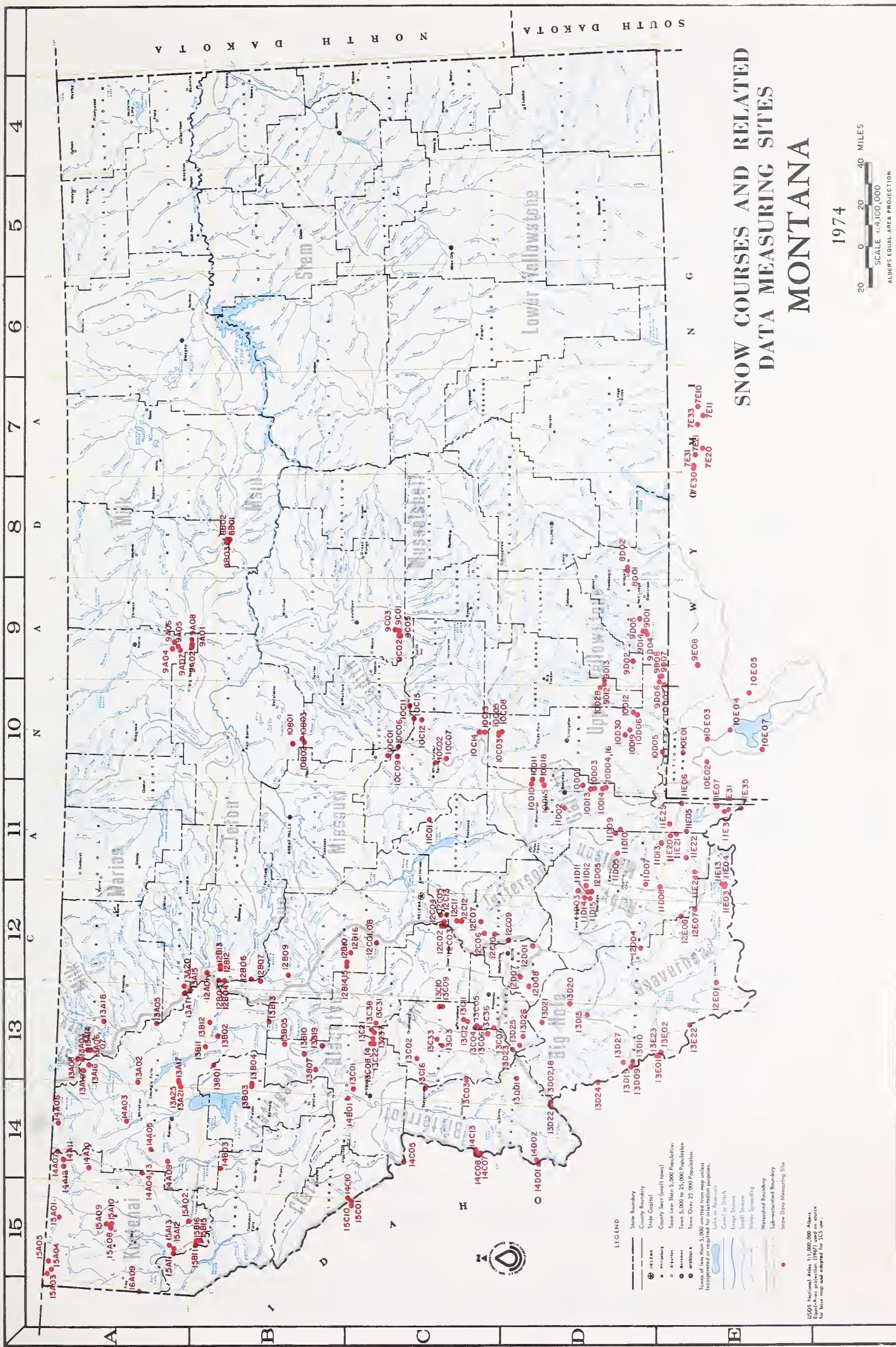












Agencies and Organizations Cooperating in Montana Snow Surveys

GOVERNMENT AGENCIES

Canada:

Water Survey of Canada, Calgary, Department of the Environment
Water Resources Service, Department of Lands, Forests and Water Resources, British Columbia

Federal:

Department of the Army
Corps of Engineers
U.S. Department of Agriculture
Forest Service
Soil Conservation Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of the Interior
Bonneville Power Administration
Bureau of Indian Affairs
Bureau of Reclamation
Bureau of Sports Fisheries and Wildlife
Geological Survey
National Park Service

STATE

Montana Association of Conservation Districts
Montana Department of Fish and Game
Montana Department of Natural Resources and Conservation
Montana Water Resources Board
Montana State University - Agricultural Experiment Station
North Montana Branch Station - Agricultural Experiment Station
University of Montana -- School of Forestry

PRIVATE

Montana Power Company

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.



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